

# Earth Observing System

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## Output Data Products and Input Requirements

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Version 2.0

Volume III : Algorithm Summary Tables  
and Non-EOS Data Products

Science Processing Support Office (SPSO)

Goddard Space Flight Center

August 1992

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This document was prepared by the SPSO Team of Hughes STX under the direction of Yun-Chi Lu, EOS System Development Office, GSFC. The SPSO Team Members contributed to this report include: Hyo Duck Chang, Brian Krupp, Ravindra Kumar and Anand Swaroop. Publishing support was provided by Sara Spivey and Ron Bretemps of Hughes STX.



## PREFACE to VOLUME III

This volume contains new information which was not included in the earlier versions of the SPSO Report. The algorithm summary tables for instrument teams and IDS investigators, based upon the SPSO-developed algorithm database, establish input-output relationships among EOS data products. New information in this volume also includes the revised and extended non-EOS input requirements of EOS investigators and non-EOS data sets available from the seven data centers which have been designated as the Distributed Active Archive Centers (DAACs) for the Earth Observing System Data and Information System (EOSDIS). This volume also provides information on the Earth Probe and Pathfinder data sets which will be archived at these centers before the first EOS satellite is launched. Information on the current and future data holdings of DAACs was compiled and synthesized by the Science Processing Support Office (SPSO) at Goddard Space Flight Center (GSFC) from various on-line directory and discipline-oriented data systems such as Global Change Master Directory (GCMD), NASA Climate Data System (NCDS), and Pilot Land Data System (PLDS). This report complements the EOSDIS Science Data Plan (SDP) and includes detailed data set information not provided in the SDP.

Much of the information presented in this document is also available from *an interactive, user-friendly on-line database system* developed by the SPSO. The on-line system, known as the Science Processing DataBase (SPDB), offers not only information on non-EOS data products but also EOS data products and related information such as retrieval algorithms, investigators, instruments, and platforms.

The SPSO wishes to emphasize that this document is evolutionary and will be continually updated as new information becomes available. The SPSO would appreciate any suggestions for improvements to this report. If you have comments on this document or need additional information on the on-line system, please contact:

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## Acronyms and Abbreviations (DAAC Holdings)

<b>ADEOS</b>	Advanced Earth Observing Satellite
<b>AEM</b>	Atmospheric Explorer Mission
<b>AES</b>	Atmospheric Environmental Service
<b>AIDJEX</b>	Arctic Ice Dynamics Joint Experiment
<b>AIMS</b>	Automated Information Management System
<b>AIRS</b>	Atmospheric Infrared Sounder
<b>AO</b>	Announcement of Opportunity
<b>AOIPS</b>	Atmospheric and Oceanic Image Processing System
<b>ARC</b>	Ames Research Center
<b>ARDS</b>	Airborne Research Data System
<b>ASAS</b>	Advanced Solid-State Array Spectrometer
<b>ASF</b>	Alaska SAR Facility
<b>ATS</b>	Applied Technology Satellite
<b>ATSR</b>	Along Track Scanning Radiometer
<b>AVHRR</b>	Advanced Very High Resolution Radiometer
<b>AVIRIS</b>	Advanced Visible and Infrared Imaging Radiometer
<b>BANAT</b>	Beta Aerosol Number-density Archive Tape
<b>BUV</b>	Backscatter Ultra Violet Instrument
<b>CAC</b>	Climate Analysis Center
<b>CBT</b>	Calibrated Brightness Temperature
<b>CCT</b>	Computer Compatible Tape
<b>CDCR</b>	Conceptual Design and Cost Review
<b>CD-ROM</b>	Compact Disk- Read Only Memory
<b>CEAREX</b>	Coordinated Eastern Arctic Experiment
<b>CERES</b>	Clouds and Earth's Radiant Energy System
<b>CIESIN</b>	Consortium for International Earth Science Information Network
<b>CLDT</b>	Cloud Data Tape
<b>CLE</b>	Cloud Estimation
<b>COADS</b>	Comprehensive Ocean and Atmosphere Data Set
<b>CPOZ</b>	Compressed Profile Ozone Data
<b>CZCS</b>	Coastal Zone Color Scanner
<b>DAAC</b>	Distributed Active Archive Center
<b>Daedalus</b>	Daedalus Corporation
<b>DE</b>	Dynamic Explorer
<b>deg</b>	degree
<b>DEM</b>	Digital Elevation Model
<b>DMA</b>	Defense Mapping Agency
<b>DMSP</b>	Defense Meteorology Satellite Program
<b>DOD</b>	Department of Defense
<b>DOE</b>	Department of Energy
<b>ECMWF</b>	European Center for Medium Range Forecasting
<b>EDC</b>	EROS Data Center
<b>EHT</b>	Experimenter's History Tape
<b>EOS</b>	Earth Observing System
<b>EOSDIS</b>	EOS Data and Information System
<b>ERBE</b>	Earth Radiation Budget Experiment

<b>ERBS</b>	Earth Radiation Budget Satellite
<b>ERICA</b>	Extra-tropical Rapidly Intensifying Cyclones in the Atlantic
<b>EROS</b>	Earth Resource Observation System
<b>ERS</b>	Earth Remote-sensing Satellite
<b>ESMR</b>	Electrically Scanning Microwave Radiometer
<b>FI</b>	Facility Instrument
<b>FIFE</b>	First ISLSCP Field Experiment
<b>FIRE</b>	First ISCCP Regional Experiment
<b>FNOC</b>	Fleet Numeric Oceanography Center of U.S. Navy
<b>FOLD</b>	Federally Owned Landsat Data
<b>FOV</b>	Field Of View
<b>FY</b>	Fiscal Year
<b>GAC</b>	Global Area Coverage
<b>GALE</b>	Genesis of Atlantic Lows Experiment
<b>GB</b>	Giga-Bytes
<b>GCMD</b>	Global Change Master Directory
<b>GCRP</b>	Global Change Research Program
<b>GEOSAT</b>	GEOstationary SATellite
<b>GISS</b>	Goddard Institute of Space Studies
<b>GLERL</b>	Great Lakes Environmental Research Laboratory
<b>GLIS</b>	Global Land Information System
<b>GOES</b>	Geostationary Operational Environmental Satellite
<b>GPCP</b>	Global Precipitation Climatology Project
<b>GSFC</b>	Goddard Space Flight Center
<b>GSOP</b>	Ground Systems and Operations Project
<b>HCMM</b>	Heat Capacity Mapping Mission
<b>HDT</b>	High Density Tape
<b>HIRS</b>	High Resolution Infrared Radiation Sounder
<b>HRPT</b>	High Resolution Picture Transmission
<b>IDAMS</b>	Image Display and Manipulation System
<b>IDS</b>	Interdisciplinary Science
<b>II</b>	Interdisciplinary Investigator
<b>IR</b>	Infrared
<b>IRIS</b>	Infra-Red Interferometry Spectrometer
<b>IRR</b>	Infra-Red Radiometer
<b>ISCCP</b>	International Satellite Cloud Climatology Project
<b>ISLSCP</b>	International Satellite Land Surface Climatology Project
<b>ISY</b>	International Space Year
<b>JERS</b>	Japanese Earth Remote-sensing Satellite
<b>JPL</b>	Jet Propulsion Laboratory
<b>km</b>	Kilometer
<b>LAC</b>	Local Area Coverage
<b>LAIPAT</b>	LIMS Inverted Profile Archive Tape (see LIMS)
<b>LAMAT</b>	LIMS Analyzed Map Archive Tape (see LIMS)
<b>LaRC</b>	Langley Research Center
<b>Lat</b>	Latitude
<b>LIMS</b>	Limb Infrared Monitor of the Stratosphere
<b>LLL</b>	Lawrence Livermore Laboratory
<b>LLP</b>	Lightning Location and Protection

<b>Long</b>	Longitude
<b>LW</b>	Long Wave
<b>MAPLO</b>	Mapped Parameters of Land and Ocean
<b>MAPSS</b>	Mapped Parameters of Sea-ice and Snow
<b>MAT</b>	Master Archive Tape
<b>MCSST</b>	Multi-Channel Sea Surface Temperature
<b>MERDAT</b>	Merged Ephemeris and Radiance Data Tape
<b>MFR</b>	Multi-channel Filtered Radiometer
<b>MIZEX</b>	Marginal Ice Zone EXperiment
<b>MODIS</b>	Moderate Resolution Imaging Spectrometer
<b>Mon</b>	Monthly
<b>MRIR</b>	Medium Resolution Infrared Radiometer
<b>MSFC</b>	Marshall Space Flight Center
<b>MSS</b>	Multi Spectral Spectrometer
<b>MSU</b>	Microwave Sounding Unit
<b>NASA</b>	National Aeronautics and Space Administration
<b>NASDA</b>	National Space Development Agency (Japan)
<b>NBDC</b>	National Buoy Data Center
<b>NCAR</b>	National Center for Atmospheric Research
<b>NCDC</b>	National Climate Data Center
<b>NCDS</b>	NASA Climate Data System
<b>NDVI</b>	Normalized Difference Vegetation Index
<b>NEMS</b>	NIMBUS-E Microwave Spectrometer
<b>NERDAS</b>	NASA Earth Resource Data System (C130 data recording)
<b>NESDIS</b>	National Environmental Satellite, Data, and Information Service
<b>NGDC</b>	National Geophysical Data Center
<b>NH</b>	Northern Hemisphere
<b>NIR</b>	Near Infrared
<b>NMC</b>	National Meteorology Center
<b>NMRT</b>	NIMBUS Meteorological Radiation Tape
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NODS</b>	NASA Ocean Data System
<b>NS001 TMS</b>	TMS Data Collected by NASA using NS001 sensor flown on aircraft
<b>NSCAT</b>	NASA SCAtterometer
<b>NSIDC</b>	National Snow Ice Data Center
<b>NSSDC</b>	National Space Science Data Center
<b>NURE</b>	National Uranium Resource Center
<b>NWS</b>	National Weather Service
<b>OCI</b>	Ocean Color Imager
<b>OCTS</b>	Ocean Color Temperature Scanner
<b>OLR</b>	Outgoing Longwave Radiation
<b>OLS</b>	Operational Line Scanner
<b>ORNL</b>	Oak Ridge National Laboratory
<b>PARMLO</b>	Parameter of Land and Ocean
<b>PAT</b>	Processed Archive Tape
<b>PDB</b>	Primary Data Base
<b>PI</b>	Principal Investigator
<b>PLDS</b>	Pilot Land Data System
<b>RAT</b>	Raw Archive Tape

<b>RBV</b>	Return Beam Vidicon on Landsat
<b>RDAT</b>	Radiance Data Archive Tape
<b>RDC</b>	Research Data Corporation
<b>RUT</b>	Raw Unit Tape
<b>SAB</b>	Sort into Angular Bins
<b>SAGE</b>	Stratospheric Aerosol and Gas Experiment
<b>SAM</b>	Stratospheric Aerosol Measurement
<b>SAR</b>	Synthetic Aperture Radar
<b>SCAMS</b>	SCanning Microwave Spectrometer
<b>SCR</b>	Selective Chopper Radiometer
<b>SDP</b>	Science Data Plan
<b>Seas</b>	Seasonal
<b>SeaWIFS</b>	Sea-viewing Wide Field of View Sensor
<b>SEFDT</b>	Solar and Earth Flux Data Tape
<b>Sfc</b>	Surface
<b>SIR</b>	Shuttle Imaging Radar
<b>SIRS</b>	Scanning Infrared Radiometer
<b>SME</b>	Solar Mesosphere Explorer
<b>SMIRR</b>	Shuttle Multiple Infra-Red Radiometer
<b>SMMR</b>	Scanning Multichannel Microwave Radiometer
<b>SOTA</b>	SCAMS Output Tape of Atmospheric data
<b>SPDB</b>	Science Processing Database
<b>SPSO</b>	Science Processing Support Office
<b>SRT</b>	Scene Radiance Tape
<b>SSM/I</b>	Special Sensor Microwave / Imager
<b>SSM/T</b>	Special Sensor Microwave / Temperature
<b>SST</b>	Sea Surface Temperature
<b>SSU</b>	Stratospheric Sounding Unit
<b>STA</b>	Sub Target Area
<b>SW</b>	Short Wave
<b>TAT</b>	Antenna Temperature Tape
<b>TCT</b>	Calibrated Temperature Tape
<b>THIR</b>	Temperature Humidity Infrared Radiometer
<b>TIMS</b>	Thermal Infrared Multispectral Scanner
<b>TIROS</b>	Television Infrared Operational Satellite
<b>TMS</b>	Thematic Mapper Simulator
<b>TOGA</b>	Tropical Ocean and Global Atmosphere
<b>TOMS</b>	Total Ozone Mapping Spectrometer
<b>TOPEX</b>	Ocean Topography EXperiment
<b>TRMM</b>	Tropical Rain Mapping Mission
<b>U of NH</b>	University of New Hampshire
<b>UARS</b>	Upper Atmosphere Research Satellite
<b>UAWRS</b>	Upper Atmospheric Weather Relay System
<b>UCLA</b>	University of California, Los Angeles
<b>USGS</b>	United States Geological Survey
<b>UV</b>	Ultra-Violet
<b>V0</b>	Version-0 (zero)
<b>VISSR</b>	Visible Infrared Spin Scan Radiometer
<b>VLBI</b>	Very Long Baseline Interferometry

**wk**  
**ZMT**

Weekly  
Zonal Mean Tape





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## 8.0 INTRODUCTION

The Science Processing Support Office (SPSO) at NASA Goddard Space Flight Center (GSFC) has compiled and synthesized detailed information about the Earth Observing System (EOS) output data products and input requirements of instrument teams and Interdisciplinary Science (IDS) investigators, and also estimated the baseline computational and storage requirements for Earth Observing System Data and Information System (EOSDIS). Updated data product information reflecting the reconfigured EOS Program is presented in Volumes I and II of this report. Volume III contains information on retrieval algorithms, providing links among EOS products. Also included in this volume are non-EOS data products required by EOS instrument and IDS investigator teams for their studies and information on the current and future data holdings of seven primary Distributed Active Archive Centers (DAACs).

Eight U.S. institutions have been designated as DAACs on the basis of their existing data system capabilities, infrastructure and institutional scientific expertise. They include four NASA centers: the Goddard Space Flight Center (GSFC), the Jet Propulsion Laboratory (JPL), the Langley Research Center (LaRC), and the Marshall Space Flight Center (MSFC) and four non-NASA centers: the Alaska SAR Facility (ASF) at University of Alaska, Earth Resource Observation System (EROS) Data Center (EDC) of U. S. Geological Survey (USGS), the National Snow and Ice Data Center (NSIDC) and the Department of Energy (DOE) Oak Ridge National Laboratory (ORNL). In addition, the Consortium for International Earth Science Information Network (CIESIN) located in Saginaw, Michigan, designated as Socioeconomic Data and Information Center, will archive and distribute social and economic data, and related earth science data to complement the efforts of other DAACs.

These data centers, with the exception of CIESIN, have archived variety of data sets representing in-situ measurements including ship and aircraft data, raw data and derived products from past NASA, NOAA, DoD, and other institutions sponsored missions/platforms, and special projects carried out in the area of their expertise and interest. The SPSO has collected information about the data sets archived at seven of these centers (ASF, EDC, JPL, GSFC, LaRC, MSFC, and NSIDC) and compiled it in a common format for easy cross-referencing. The SPSO-compiled information contains detailed data set information such as platform, instrument, time period, media, data volumes, parameters, temporal resolution, horizontal/vertical resolution and coverage.

The purpose of this Volume III is to assist EOS investigators in locating required non-EOS data products by identifying their non-EOS input requirements and providing the information on data sets available at various DAACs, including those from Pathfinder Activities and Earth Probes. Volume III is intended to complement, not to duplicate, the EOSDIS Science Data Plan (SDP) by providing detailed data set information which was not presented in the SDP. The information provided in the SDP addresses the high level

plan for the Version (V0) data sets and the type of services to be provided to the user community in the V0 timeframe. The SDP deals with the issues such as policies on data availability, pricing and billing procedures for the data as well as the data categorization by funding, action required, source of data demand and priorities. The SDP has also established a link between the Global Change Research Program (GCRP) objectives and the V0 data sets. In contrast, this volume of the report is designed to provide detailed data set information which is not provided in the SDP.

Section 9 of this volume discusses the algorithm summary tables containing information on retrieval algorithms, expected outputs and required input data. Section 10 describes the non-EOS input requirements of instrument teams and IDS investigators. Also described are the current and future data holdings of the original seven DAACS and data products planned from the future missions and projects including Earth Probes and Pathfinder Activities. Section 11 describes source of information used in compiling data set information presented in this volume. A list of data set attributes used to describe various data sets is presented in section 12 along with their descriptions. Finally, Section 13 presents the SPSO's future plan to improve this report .

## 9.0 RETRIEVAL ALGORITHMS

The SPSO developed an algorithm database which is complementary to the EOS Master Product Database. The purpose of the algorithm database is *not* to provide detailed, comprehensive descriptions of scientific algorithms proposed by EOS investigators, but to provide an overview of various algorithms, their corresponding output data products, and input requirements. In particular, an emphasis was placed on the relationship between input (both EOS and non-EOS) and output data for a given algorithm.

Algorithm summary tables for instruments and IDS investigators, which are based upon the SPSO-developed algorithm database, are presented in Appendices P and Q, respectively. Unlike retrieval algorithms proposed by instrument teams, many IIs' studies involve complex, numerical models and one-to-one mapping of input and output data product was not always possible. For that reason, proposed models, instead of individual science algorithms used in the models, were treated as retrieval algorithms and no attempt was made to establish a relationship between an individual output and a required input data. There are a number of utility algorithms which are essential to the reduction of Level 0 data and the successful generation of higher-level products. They include algorithms for calibration, earth location, cloud identification, averaging and display. Descriptions of these utility algorithms are not included in this report.

The algorithm summary tables are preliminary and based upon information available to the SPSO as of July 1, 1992, although most of the source materials were obtained from

instrument team documents, proposals, and CDCR's. The documents used in the algorithm database include:

- MODIS Core Data Product and Algorithm Report, Oct., 1989
- CERES Data Management Plan, Draft for Science Team Review, March 1990
- AIRS Data Product Development Plan by M. Chahine, First Draft, May 1990
- Announcement of Opportunity (AO) and Phase C/D Proposals, Submitted by the Facility Instrument (FI) Team members, Interdisciplinary Investigators (II) and Principal Investigator (PI) instrument teams
- Conceptual Design and Cost Review (CDCR) presentation materials by instrument teams
- Input Data Requirements for MODIS, survey conducted in 1991, RDC, Greenbelt, MD
- The Multi-Frequency Imaging Microwave Radiometer, Instrument Panel Report ESA SP-1138, European Space Agency, Paris, France, August 1990
- Data Product and Algorithm Review forms received from twelve MODIS team members

In addition, The EOS Master Product database developed by the SPSO was used to populate the fields for input and output data products presented in Appendices P and Q. The database, which contains information on over 2300 input data requirements and output data products, is described in Volume I of this report.

## **10.0 NON-EOS DATA PRODUCTS**

Development and validation of retrieval algorithms and generation of data products require not only EOS data products, but also many other non-EOS data products which will not be available from EOS instruments. The purpose of this section is to describe the non-EOS data products required by EOS investigators, including both instrument and IDS investigator teams, for their studies and provide information on the current and future data sets available from non-EOS instruments and conventional measurements.

### **10.1 Non-EOS Input Requirements**

Non-EOS input requirements identified by instrument teams and IDS investigators are compiled and listed in the Appendices R and S. In Appendix R, the input requirements are arranged by product number. Appendix R provides information on platform/mission, instrument, and source data center(s) for each non-EOS input data product required by EOS investigators. It also provides information on EOS investigators who require a particular non-EOS input data for their studies and algorithms in which it will be used as input.

Related algorithm information is presented in Appendix P for EOS instruments and Appendix Q for IDS investigators (see Section 9).

In Appendix S, non-EOS input requirements of instrument and IDS investigator teams are arranged in alphabetical order by parameter name. Unlike Appendix R where investigator and algorithm information is presented, Appendix S is designed to provide information on characteristics of each input data such as accuracy, temporal resolution, and spatial resolution/coverage. In many cases, very little is known about the specifics of input requirements and the SPSO plans to fill in missing information as additional information becomes available.

The non-EOS data products listed in Appendices R and S are those required by EOS investigators for their studies. However, one should not assume that it is required for EOSDIS to acquire all of them. Many of these non-EOS data products may be provided by investigators themselves, as indicated by some of MODIS team members. At this point, the SPSO does not have such information except for what is available from the MODIS Team. For that reason, information on the data provider was not included in this report.

## 10.2 Current and Future Data Holdings of DAACs

Data sets currently archived and to be archived at the original seven DAACs by the end of FY94 are listed in Appendices T and U. These data sets will be used to support the U. S. GCRP and constitute a valuable resource for the development and prototype of Version 0 of the EOSDIS. Both Appendices T and U provide detailed data set information such as platforms, instruments, source data centers, accuracy, data volume, storage media, temporal resolution, horizontal and vertical resolution/coverage, etc. Appendices T and U contain the same information, but the information is presented in different ways. In Appendix T, data sets are listed by DAAC. In Appendix U, the same data set information is arranged by platform (or experiment for *in-situ* measurements).

In addition to the original seven DAACs for which data set information is presented in Appendices T and U, NASA HQ designated the Oak Ridge National Laboratory (ORNL) as the eighth DAAC responsible for trace gases. The Consortium for International Earth Science Information Network (CIESIN) was designated as the Socio-Economic Data and Application Center. Since, at this time, the SPSO has very little information on the data holdings of these two organizations, data set information for ORNL and CIESIN was not included in this report, but will be described in a future version.

Pathfinder data sets are defined as the EOSDIS prototype data sets that are of particular significance for the Global Change research. In addition to meeting the immediate scientific goal of providing Global Climate related data sets, the Pathfinder data sets will be used in prototyping activities of the EOSDIS functions. More specifically, the prototyping

activities will include product generation, validation, analysis, archival and distribution of the Pathfinder data sets and derived products. The Pathfinder data sets include: AVHRR GAC data from five channel AVHRR instrument and TOVS data from HIRS, MSU and SSU instruments on board NOAA's polar orbiting satellites. Under the Pathfinder effort, these data sets will be acquired from NOAA under an agreement and will be transferred to some suitable media. The inter-calibration problems between the instruments operating at different times on the same platform will be addressed and various geophysical data products will be derived and validated for use in the global change research. The GOES and SSM/I data sets are also identified as Pathfinder data sets. However, specific data products to be derived from these data sets are not known at the present time. The Pathfinder data sets will be assigned to a DAAC according to the DAAC discipline responsibilities, as discussed in Section 2.2 of Volume I.

During the V0 timeframe which ends at the end of FY94, the transition of some data sets from existing data systems to DAACs will take place. One good example is earth science data sets currently archived at the National Space Science Data Center (NSSDC), GSFC. They will be transferred to various DAACs depending upon data type and discipline. Data set information for FY94 in Appendices T and U is based on the NSSDC Transition Plan.

### **10.3 Earth Probes**

Prior to the launch of the EOS series satellite, NASA will launch and operate a wide variety of new Earth science satellites in support of the U. S. Global Change Research Program (GCRP). These missions are independent flight projects collectively referred to as Earth Probes. The data products from Earth Probe missions will be transferred from the flight project data centers to the appropriate DAACs for archival and distribution to the general user community. Many EOS investigators plan to use the Earth Probe data products for algorithm development and validation in the pre-EOS era. Because of their importance to the EOS program and the GCRP, the SPSO compiled information on data products from Earth Probe missions, including SeaWiFS, TOMS, TOPEX/POSEIDON UARS, NSCAT and TRMM. The data product information is presented in Appendix V.

## **11.0 SOURCES OF INFORMATION**

The data set information and the updated volume estimates for the fiscal years (FY) ending in 1991 and 1994 were provided by the DAACs. This information was collected and compiled in generating the SDP. Additional information such as parameters, horizontal and vertical resolution/coverage, and temporal resolution was collected by the SPSO from various on-line data catalog and directory system and discipline-oriented data systems at various institutions. Some of this information has been presented in the SDP. Appendices

T and U contain cross-references to the corresponding entries in the SDP. Following is the list of data catalog and directory systems which were used in compiling information:

- NASA Climate Data System (NCDS) at NASA/GSFC.
- Pilot Land Data System (PLDS) at NASA/GSFC.
- Automated Information Management System (AIMS) at GSFC/NSSDC.
- Global Change Master Directory (GCMD) at GSFC/NSSDC.
- NASA Ocean Data System (NODS) at NASA/JPL.
- Global Land Information System (GLIS) at USGS/EDC.
- RSIRS Query System at GSFC/NSSDC
- Cryospheric Data Management System at NSIDC

In addition to the on-line directory and data systems, the following documents were used as sources of information:

- Science Data Plan for the EOS Data and Information System Covering EOSDIS Version 0 and Beyond, NASA Document 423-33-03, GSFC/GSOP, May 1992.
- FILX Document, NSSDC Technical Information Section, Code 934.4, NASA/GSFC.
- NSSDC Data Listing, R. Horowitz, NASA/NSSDC, August 1991.
- SeaWiFS Science Data and Information System Architecture Report, September 1991, GSFC.
- The UARS Project Data Book, NASA/GSFC.
- Global Land Information System User's Guide, January 1991, USGS/EDC.
- The Pilot Land Data System (PLDS) Tutorials, Version 1.0, June 1991, NASA/GSFC.
- NASA's Climate Data System, Primer, Version 4.0, March 1991, NASA/GSFC.
- Contents of the JPL Distributed Active Archive Center (DAAC), Version 2-91, NASA/JPL.

## 12.0 DESCRIPTION OF FIELDS

Appendices T and U contain various fields to describe data set information. The descriptions of these fields are given in Table 12-1.



Table 12-1. Description of Fields

Field Name	Description
Data Set No.	An arbitrary ID number assigned to a data set for the internal use of the SPSO
Data Set Name	Name of a data set
Level	Processing level of a data set following the EOSDIS definition (see Table A-2 of Volume I)
Platform	Satellite, mission, project, or experiment from which a data set is derived
Instrument	Name of instrument from which a data set is derived
Archive Center	Name of the data center where a data set is currently archived or to be archived in the future
Data Held	Status of the data archival (YES if data is currently archived and available; NO if not archived but planned to be archived in the future)
FY91 Volume	Estimated data volume in giga-bytes (GB) at the end of FY91 (September 30, 1991)
FY94 Volume	Estimated data volume in giga-byte (GB) by the end of FY94 (September 30, 1994) when the Version 0 Project of EOSDIS ends
Temporal Coverage	Time period covered by a data set
Parameters	Names of the geophysical parameteres included in a data set
Temporal Resolution	Frequency at which various geophysical parameters are derived
Horizontal Resolution	Horizontal spatial resolution of each data product, e. g., 10 x 10 km, 1° x 1° (latitude and longitude), 5° zonal mean, etc.
Vertical Resolution	Vertical spatial resolution of each data product or measurement, [e. g., 1 km, 100 mb, column (for vertically integrated quantities), NA if not applicable (surface properties)]
Horizontal Coverage	The horizontal region over which the measurement is taken or the data set is to be produced, e. g., global, polar, ocean, etc.
Vertical Coverage	Vertical region over which data set or measurement are taken or are to be produced, e. g., surface, surface to 10 km, stratosphere, etc.
Comments	Any relevant information necessary to describe a particular data set
Priority	Dataset priorities identified in SDP (L-low, M-Medium, H-High)
SDP No.	Dataset identification number used in the Science Data Plan (SDP)

### 13.0 FUTURE PLAN

This is a preliminary report on the data holdings of EOSDIS DAACs. This volume of the report is designed to provide the EOS science community with the information on the availability of the pre-EOS data sets at various DAACs. Despite our best efforts to provide complete information, in some cases it was not possible to collect all of pertinent data set information we would like to have, simply because of the lack of information. The SPSO plans to continually collect and compile missing information and incorporate the information in the future release of this report. Most of the data volume estimates in this report were provided to the SPSO by the representatives of each DAAC. However, those for future missions were estimated by the SPSO, based on available information. When additional information becomes available, volume estimates will be revised.

Undoubtedly, the data holdings of each DAAC will grow in the future. Each data center will continue to manage their current data holding and will collect and archive raw data sets and products derived from future mission/projects and experiments to support the U.S. Global Change Research Program (GCRP) and international research programs (e.g., as recommended by the Intergovernmental Panel on Climate Change, the World Climate Program, and the International Geosphere-Biosphere Program). The SPSO will continue to collect data set information and update this report as new information becomes available. Due to the lack of information, data holdings of ORNL and CIESIN were not included in this report. The SPSO plans to include pertinent data set information in the next release of this report.

The data set information presented in this volume is also available through an interactive, user friendly, on-line database system which is known as the Science Processing DataBase (SPDB) and developed by the SPSO. The on-line system, which can be accessed through either direct dial-up or networks, allows users to query on data sets of interest. It also provides information on EOS data products and related information such as investigators, instruments, platforms and retrieval algorithms. Contents of the on-line database will be routinely updated so that users will have access to the most current information about the current and future data holdings of various DAACs. In addition, the SPSO will enhance the functionality of the SPDB to provide additional query capability.

# **Algorithm Summary Table for EOS Instruments**

Appendix P

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**



Product numbers < 1000 refer to non-EOS data requirements described in Appendix R

O = output product  
I = input product  
E and N denote that the product is from an EOS or non-EOS instrument

The attributes are for the corresponding input (I) or output (O) products. AL = at launch; BL = before launch; PL = post launch. d,n denote local, regional and global respectively. L, R and G denote local, regional and global respectively (see Appendix A for acronyms).

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Solar Total Irradiance (711)	Willson	2274	Irradiance, Solar, Total	O	E	ACRIM	MO	AL	1/K2 min	N/A :: N/A	N/A :: TOA
Surface Reflectance (507)	Gautier	2000	Albedo, Land, sfc	O	E	AIRS/AMSU	PM	PL	1/day	50 km :: Land	N/A :: Sfc
		1869	Precipitable Water	I	E	AIRS/AMSU	PM	AL	2/day [d,n]	50 km :: G	N/A :: Trop
		2347	Level-1B Radiance, AIRS	I	E	AIRS	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
Near Surface Wind Speed Retrieval (503)	Aumann	1718	Wind Speed, Sea_sfc	O	E	AIRS/AMSU	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
		2347	Level-1B Radiance, AIRS	I	E	AIRS	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2350	Level-1B Radiance, AMSU-A	I	E	AMSU-A	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
		167	radiance	I	N	HIRS			2/day [d,n]	50 km :: R	N/A :: Atmos

The algorithm ID is for internal use and has no physical significance.

## Legend for Appendix P: Algorithm Summary Table for Instruments

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Solar Total Irradiance (711) Cloud Retrieval (501)	Willson Chahine, Rizzi et al.	2274	Irradiance, Solar, Total	O	E	ACRIM	MO	AL	1/(2 min)	N/A :: N/A	N/A :: TODA
		1423	Cloud Height, Top	O	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		2062	Cloud Cover	O	E	AIRS	PM	AL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		2128	Cloud Emissivity, IR Spectral (3-14um)	O	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 15 x 45 km :: G	N/A :: Cloud
		2463	Cloud Temperature, Top	O	E	AIRS	PM	AL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2350	Level-1B Radiance, AMSU-A	I	E	AIRS(AMSU-A)	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
Near Surface Wind Speed Retrieval (503)	Aumann	2352	Level-1B Radiance, MHS	I	E	AIRS(MHS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2481	Land_sfc Temperature, Skin	I	E	AIRS	PM	AL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2523	Sea_sfc Temperature (SST), Skin	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
		1718	Wind Speed, Sea_sfc	O	E	AIRS	PM	PL	1/day	50 km :: Ocean	N/A :: Sfc
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2350	Level-1B Radiance, AMSU-A	I	E	AIRS(AMSU-A)	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
		167	radiance	I	N	HIRS	NOAA	BL	2/day [d,n]	15 km :: R	N/A :: Atmos
		248	radiance	I	N	AMSU	NOAA-11	BL			
		1562	Stratospheric Height	O	E	AIRS	PM	PL	2/day [d,n]	50 x 50 km :: G	N/A :: Mid-atmos
		1588	Temperature Profile	O	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
Retrieval of Temperature & Humidity Profiles (510)	Suazkind	1828	Humidity Profile	O	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		1869	Precipitable Water	O	E	AIRS	PM	AL	2/day [d,n]	50 km :: G	N/A :: Trop
		1969	Precipitation Index	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	N/A :: Trop
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2350	Level-1B Radiance, AMSU-A	I	E	AIRS(AMSU-A)	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
		2352	Level-1B Radiance, MHS	I	E	AIRS(MHS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		28	sounding data	I	N	TOVS	NOAA	BL			
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		47	geophysical data	I	N		in situ (ship)	BL			
		56	radiance	I	N	HIRS2	NOAA	BL			
Sea Ice Cover and Cloud Liquid Water (502)	Staclin, Rosenkranz	84	temperature profiles	I	N		in situ (radiosonde)	BL			
		744	humidity profiles	I	N		in situ (radiosonde)	BL			
		745	column water vapor	I	N		in situ (radiosonde)	BL			
		749	humidity profiles	I	N		in situ (radiosonde)	BL			
		1893	Cloud Ice Index	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	N/A :: Cloud
		1908	Cloud Liq. water Content	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	N/A :: Cloud
		2921	Ice Sheet Cover Index	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Land/Cryo	N/A :: Sfc
		3018	Snow Cover Index [combined with 2921]	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		3151	Sea Ice Cover	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean/Cryo	N/A :: Sfc
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
Surface Longwave Fluxes (505)	Gautier	2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2481	Land_sfc Temperature, Skin	I	E	AIRS	PM	AL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2523	Sea_sfc Temperature (SST), Skin	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
		2176	Radiative Flux, LW, Net	O	E	AIRS	PM	PL	1/day	50 km :: Land	N/A :: Sfc
		2177	Radiative Flux, LW, Net	O	E	AIRS	PM	PL	1/day	50 km :: Ocean	N/A :: Sfc
		2209	Radiative Flux, LW Spectral	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2210	Radiative Flux, LW Spectral	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Surface Longwave Fluxes (505)	Gautier	2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
Surface Properties Retrieval (506)	Revercomb, Strow	2113	Land_abc Emissivity, Spectral	O	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 50 x 50 km :: Land	N/A :: Sfc
		2481	Land_abc Temperature, Skin	O	E	AIRS	PM	AL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2523	Sea_abc Temperature (SST), Skin	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
		2539	Land_abc Temperature-Difference, Day-Night	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	N/A :: Sfc
		1095	CH4 Total Burden	I	E	AIRS	PM	PL	1/day [n] - 2/day [d,n]	50 - 250 km :: G	Column :: Atmos
		1136	CO Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 - 250 km :: G	Column :: Atmos
		1151	CO2 Total Burden (Mixing Ratio)	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1249	N2O Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 15 km :: G	2 km :: Atmos
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	50 km :: Land	N/A :: N/A
Surface Reflectance (507)	Gautier	2000	Albedo, Land_abc	O	E	AIRS	PM	PL	1/day	50 km :: Land	N/A :: Sfc
		1869	Precipitable Water	I	E	AIRS	PM	AL	2/day [d,n]	50 km :: G	N/A :: Top
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		551	O3 total column	I	N	TOVS	NOAA				
Surface Shortwave Fluxes (504)	Gautier	2232	Radiative Flux, SW, Net	O	E	AIRS	PM	PL	1/day	50 km :: Land	N/A :: Sfc
		2233	Radiative Flux, SW, Net	O	E	AIRS	PM	PL	1/day	50 km :: Ocean	N/A :: Sfc
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
Trace Gas Retrieval (509)	Strow	1095	CH4 Total Burden	O	E	AIRS	PM	PL	1/day [n] - 2/day [d,n]	50 - 250 km :: G	Column :: Atmos
		1136	CO Total Burden	O	E	AIRS	PM	PL	2/day [d,n]	50 - 250 km :: G	Column :: Atmos
		1151	CO2 Total Burden (Mixing Ratio)	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1249	N2O Total Burden	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1332	O3 Total Burden	O	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		2000	Albedo, Land_abc	I	E	AIRS	PM	PL	1/day	50 km :: Land	N/A :: Sfc
		2062	Cloud Cover	I	E	AIRS	PM	AL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2481	Land_abc Temperature, Skin	I	E	AIRS	PM	AL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2523	Sea_abc Temperature (SST), Skin	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
ALT Products (592)	Fu	2862	Geodetic EOS-platform Position	I	E	GGI	ALT	AL	7 1/s		In situ
		3597	Precipitable Water	I	E	MIMR	PM1	AL	1 mo	1 dg :: Ocean	Column :: Trop
		87	tide gauge sea level values	I	N		in situ	BL			
		341	surface pressure	I	N		in situ				
Absolute Radiometric Calibration (573)	Slater	2433	Land_abc Reflectance, Directional	O	E	ASTER	AM1	AL	3/yr	15,30 m :: Land/R/L	N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		33	scene radiances	I	N	SPOT	BL	BL			
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,n]	1.0 km :: G	N/A :: Atmos
		177	radiance based calibration	I	N	ER-2					
		182	calibration data for ASTER	I	N	SWIR spectrometer	in situ				
		183	calibration data for ASTER	I	N	spectrometer	in situ (helicopter)				
Cloud Field Morphology (575)	Welch	1409	Cloud Structure, 3-D	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	:: Cloud
		3628	Cloud Field Scales_of_Organization	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Cloud Parameters (577)	Welch	1391	Cloud Height, Base	O	E	ASTER	AM1	AL	1/(16 day)	100 m :: L	N/A :: Cloud
		1427	Cloud Height, Top	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		1763	Cloud Drop Phase	O	E	ASTER	AM1	AL	1/(16 day)	15-30 m :: L	N/A :: Cloud
		1779	Cloud Drop Size(Effective Radius)	O	E	ASTER	AM1	AL	1/(16 day)	15-90 m :: L	:: Cloud

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cloud Parameters (577)	Welch	2080	Cloud Cover	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2093	Cloud Field Size-distribution	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2115	Cloud Emissivity	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2310	Cloud Optical Depth	O	E	ASTER	AM1	AL	1/(16 day)	15-30 m :: L	N/A :: Cloud
		2465	Cloud Temperature, Top	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		3625	Cloud Thickness	O	E	ASTER	AM1	AL	1/(16 day)	100 m :: L	N/A :: Cloud
		3626	Cloud Liquid Water Content	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		3627	Cloud Drop Size distribution	O	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL	1/day	1 km :: G	N/A :: N/A
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2	geophysical data	I	N	ASTER	in situ (aircraft)	BL			
		14	sounding data	I	N	AVIRIS	GOES	BL			
		16	scene radiances	I	N	VAS	Landat	BL			
		17	geophysical data	I	N	TM	Meteosat	BL			
		109	geophysical data	I	N	VISSR	GOES	BL			
Eruption Cloud Characteristics (570)	Pieri	178	global cloud climatology scenes	I	N		JAS				
		179	global cloud climatology scenes	I	N						
		3301	Eruption-Plume Characteristics	I	N		JapanSat				
		1588	Temperature Profile	O	E	ASTER	AM1	AL		15,30,90 m :: R/L	
		2375	Level-1B Radiance, ASTER	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		2386	Level-1B Radiance, MISR	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2773	Mineral Index	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: TOA
		2817	Mineral Maps	O	E	ASTER	AM1	AL	15 scenes/yr	15,30,90 m :: Land/R,L	N/A :: Sfc
		2836	Landform Lineament / Slope Maps	O	E	ASTER	AM1	PL	50/mission	90 m :: Land/R,L	N/A :: Sfc
		2883	Geologic Unit Maps (Geology Maps)	O	E	ASTER	AM1	AL	25 scenes/yr	50 m :: Land/R,L	N/A :: Sfc
		2129	Land_etc Emissivity, Relative Spectral	O	E	ASTER	AM1	PL	50/mission	90 m :: Land/R,L	N/A :: Sfc
		2338	Level-1B Radiance, MODIS<3um	I	E	ASTER	AM1	AL	1/(0.5-16 day)	90 m :: Land/R,L	N/A :: Sfc
		2339	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
Geological and Mineral Mapping (567)	Rowan, Kahle et al.	2435	Land_etc Reflectance, Relative Spectral	I	E	ASTER	AM1	AL	1/(2-16 day)	15,30 m :: Land/R,L	N/A :: Sfc
		2828	Topographic Elevation, Land_etc, (DEM)	I	E	ASTER	AM1	AL	1/mission	15 m :: Land/R,L	N/A :: Sfc
		2931	Glacier Velocity	O	E	ASTER	AM1	AL	1 yr	15 m :: Land/Cryo	30 m :: Sfc
		2378	Level-2 Radiance, Land_leaving	I	E	ASTER	AM1	AL	1/(2-16 day)	90 m :: Land/R,L	N/A :: Sfc
		2124	Land_etc Emissivity [1]	O	E	ASTER	AM1	AL	1/(0.5-16 day)	90 m :: L	N/A :: Sfc
		2483	Land_etc Temperature (3-products)	O	E	ASTER	AM1	AL	1/(2-16 day)	90 m :: Land	N/A :: Sfc
		2378	Level-2 Radiance, Land_leaving	I	E	ASTER	AM1	AL	1/(2-16 day)	90 m :: Land/R,L	N/A :: Sfc
		2452	Brightness Temperature (at Sensor)	I	E	ASTER	AM1	AL	1/(2-16 day)	90 m :: G	N/A :: at sensor
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		113	digital elevation model	I	N		SPOT	BL			
		181	emissivity data	I	N		in situ	BL			
		2453	Land_etc Brightness Temperature (Radiance)	O	E	ASTER	AM1	AL	1/(2-16 day)	90 m :: G	N/A :: Sfc
		1588	Temperature Profile	I	E	AIRS	PM	AL		15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Glacier Velocity (586)	Kieffer										
Land Emissivity and Kinetic Temperature (562)	Kahle, Becker et al.										
Land Surface Brightness Temperature (566)	Kahle, Palluconi et al.										



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Land Surface Brightness Temperature (566)	Kahle, Palluconi et al.	2828	Topographic Elevation, Land_sfc, (DEM)	I	E	ASTER	AMI	AL	1/mission	15 m :: Land/R.L.	30 m :: Sfc
Land Surface Heat Flux Determination (572)	Schmugge	1791	Vegetation Evapotranspiration (ET)	O	E	ASTER	AMI	AL		90 m :: Land/R.L.	N/A :: Sfc
Relative Spectral Emissivity (574)	Kahle, Becker et al.	2378	Level-2 Radiance, Land_leaving	I	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land/R.L.	N/A :: Sfc
		38	geophysical data	I	N	SAR	in situ (aircraft)	BL			
		94	geophysical data	I	N	TIMS	in situ (aircraft)	BL			
		2129	Land_sfc Emissivity, Relative Spectral	O	E	ASTER	AMI	AL	1/0.5-16 day	90 m :: Land/R.L.	N/A :: Sfc
Relative Spectral Reflectivity (576)	Kahle, Becker	2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2435	Land_sfc Reflectance, Relative Spectral	O	E	ASTER	AMI	AL	1/2-16 day	15,30 m :: Land/R.L.	N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		3152	Sea_Ice Fraction	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
Sea Ice Products (578)	Welch	3616	Sea_Ice Meltpond Fraction	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3617	Sea_Ice Lead (Open-Water) Fraction	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3618	Sea_Ice Fraction, New (First-Year)	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3619	Sea_Ice Temperature	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3620	Sea_sfc Temperature (SST)	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3621	Sea_Ice Size-distribution	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3622	Sea_Ice Lead (Open Water) Size-distribution	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		3623	Sea_Ice Thickness	O	E	ASTER	AMI	AL		90 m-1 km :: Ocean/Cryo	N/A :: Sfc
		3624	Sea_Ice Albedo	O	E	ASTER	AMI	AL		90 m :: Ocean/Cryo	N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2801	Soil Index	O	E	ASTER	AMI	AL	50 scenes/mission	15 m :: Land/R.L.	N/A :: Sfc
		2803	Soil Maps, Level-4 [Class,Comp,Age,etc.]	O	E	ASTER	AMI	PL	50 maps/mission	90 m :: Land/R.L.	N/A :: Sfc
Soil Mapping (564)	Kahle, Gillespie	2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Spectral Mixture Analysis (585)	Gillespie	2747	Vegetation Index (PVI)	O	E	ASTER	AMI	PL		15 m :: Land/R.L.	N/A :: Sfc
		2129	Land_sfc Emissivity, Relative Spectral	I	E	ASTER	AMI	AL	1/0.5-16 day	90 m :: Land/R.L.	N/A :: Sfc
		2378	Level-2 Radiance, Land_leaving	I	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land/R.L.	N/A :: Sfc
		2435	Land_sfc Reflectance, Relative Spectral	I	E	ASTER	AMI	AL	1/2-16 day	15,30 m :: Land/R.L.	N/A :: Sfc
Stereography (563)	Kahle, Becker et al.	2828	Topographic Elevation, Land_sfc, (DEM)	O	E	ASTER	AMI	AL	1/mission	15 m :: Land/R.L.	30 m :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Surface Radiance (565)	Palluconi, Christensen et al.	2378	Level-2 Radiance, Land_leaving	O	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land/R.L.	N/A :: Sfc
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
Thermal Anomalies (571)	Pieri, Kahle et al.	2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2828	Topographic Elevation, Land_sfc, (DEM)	I	E	ASTER	AMI	AL	1/mission	15 m :: Land/R.L.	30 m :: Sfc
		2447	Land_sfc Thermal Change	O	E	ASTER	AMI	AL		90 m :: Land/R.L.	N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AMI	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Thermal Inertia Mapping (568)	Kieffer, Palluconi et al.	2378	Level-2 Radiance, Land_leaving	I	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land/R.L.	N/A :: Sfc
		2483	Land_sfc Temperature (3-products)	I	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land	N/A :: Sfc
		2540	Land_sfc Temperature-Difference, Day-Night	O	E	ASTER	AMI	AL		90 m :: Land/R.L.	N/A :: Sfc
		2542	Land Thermal Inertia	O	E	ASTER	AMI	AL		90 m :: Land/R.L.	N/A :: Sfc
Volcano Age (569)	Pieri, Kahle	2124	Land_sfc Emissivity [1]	I	E	ASTER	AMI	AL	1/0.5-16 day	90 m :: L	N/A :: Sfc
		2483	Land_sfc Temperature (3-products)	I	E	ASTER	AMI	AL	1/2-16 day	90 m :: Land	N/A :: Sfc
		3674	Land_sfc Emissivity [2]	I	E	ASTER	AMI	AL	1/0.5-16 day	90 m :: L	N/A :: Sfc
		3675	Land_sfc Emissivity [3]	I	E	ASTER	AMI	AL	1/0.5-16 day	90 m :: L	N/A :: Sfc
		3298	Volcano Age	O	E	ASTER	AMI	AL		15,30,90 m :: Land/R.L.	N/A ::

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Volcano Age (569)	Pieri, Kahle	2129	Land_sfc Emissivity, Relative Spectral	I	E	ASTER	AM1	AL	1/(0.5-16 day)	90 m :: Land/R,L	N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2435	Land_sfc Reflectance, Relative Spectral	I	E	ASTER	AM1	AL	1/(2-16 day)	15,30 m :: Land/R,L	N/A :: Sfc
Cloud Retrievals (811)	BarLezom	1393	Cloud Height, Base	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	0.1 km :: Atmos
		1394	Cloud Height, Base	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	0.1 km :: Atmos
		1395	Cloud Height, Base	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	0.1 km :: Atmos
		1429	Cloud Height, Top	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	0.1 km :: Atmos
		1430	Cloud Height, Top	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	0.1 km :: Atmos
		1431	Cloud Height, Top	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	0.1 km :: Atmos
		1767	Cloud Drop Phase	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
		1768	Cloud Drop Phase	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		1769	Cloud Drop Phase	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Atmos
		1782	Cloud Drop Size(Effective Radius)	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Atmos
		1783	Cloud Drop Size(Effective Radius)	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
		1784	Cloud Drop Size(Effective Radius)	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		1895	Cloud Liq. water Content	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	1yr :: Atmos
		1896	Cloud Liq. water Content	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	1yr :: Atmos
		1897	Cloud Liq. water Content	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	1yr :: Atmos
		1899	Cloud Liq. water Total Column	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	Column :: Atmos
		1900	Cloud Liq. water Total Column	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	Column :: Atmos
		1901	Cloud Liq. water Total Column	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	Column :: Atmos
		2086	Cloud Cover	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2087	Cloud Cover	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Atmos
		2088	Cloud Cover	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
		2316	Cloud Optical Depth, LW	O	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2317	Cloud Optical Depth, LW	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 dg :: G	N/A :: Atmos
		2318	Cloud Optical Depth, LW	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 dg :: G	N/A :: Atmos
		2321	Cloud Optical Depth, SW	O	E	CERES	TRM,AM,PM	AL	3/day [d]	25 km :: G	N/A :: Atmos
		2322	Cloud Optical Depth, SW	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 dg :: G	N/A :: Atmos
		2323	Cloud Optical Depth, SW	O	E	CERES	TRM,AM,PM	AL	1/6 hr	1.25 dg :: G	N/A :: Atmos
1012		Aerosol Extinction Coef	I	E	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 0-40 km	N/A :: Atmos
1085		CH4 Conc	I	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-65 km	N/A :: Atmos
1239		N2O Conc	I	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-60 km	N/A :: Atmos
1318		O3 Conc	I	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km	N/A :: Atmos
1321		O3 Conc	I	E	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-85 km	N/A :: Atmos
1588		Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos	N/A :: Atmos
1828		Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos	N/A :: Atmos
2003		Albedo, Aerosol	I	E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Sfc	N/A :: Sfc
2111		Land_sfc Emissivity	I	E	MODIS	AM,PM	PL	1/day, 1/wk	50 km :: G,R	N/A :: Sfc	N/A :: Sfc
2113		Land_sfc Emissivity, Spectral	I	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 50 x 50 km :: Land	N/A :: Sfc	N/A :: Sfc
2293		Aerosol Optical Depth, Spectral	I	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: Land	N/A :: Atmos	N/A :: Atmos

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cloud Retrievals (811)	Bartzen	2294	Aerosol Optical Depth, Spectral	I	E	MODIS	AM/PM	AL	1/day, 1/mo	0.5 dg :: Ocean	N/A :: Atmos
		2297	Aerosol Optical Depth	I	E	EOSP	AERO/AM2	AL	1/day [d]	40 km :: G	Column :: Atmos
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM/PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM/PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM/PM	AL	1/day	1 km :: G	N/A :: N/A
		2359	Level-1B Radiance, CERES	I	E	CERES	TRMM/AM/PM	AL	6/day [d,n]	25 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM/PM	AL	1/day, 1/wk, 1/mo	0.25 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM/PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2481	Land_sfc Temperature, Skin	I	E	AIRS	PM	AL	2/day [d,n]	50 km :: Land	N/A :: Sfc
		2485	Land_sfc Temperature	I	E	MODIS	AM/PM	AL	1/day, 1/wk	10 km :: Land	N/A :: Sfc
		2532	Sea_sfc Temperature (SST)	I	E	MODIS	AM/PM	AL	1/day, 1/wk, 1/mo	50 km :: Ocean	N/A :: Sfc
		3598	Cloud Liq. water Total Column	I	E	MIMR	PM1	AL		22 km :: Ocean	N/A :: Trop
		3600	Precipitation Rate	I	E	MIMR	PM1	AL		22 km :: Global	N/A :: Sfc
		3607	Snow Cover	I	E	MIMR	PM1	AL		22 km :: Land	N/A :: Sfc
		3611	Sea_Ice Conc	I	E	MIMR	PM1	AL		22 km :: Ocean/Cryo	N/A :: Sfc
		350	aerosol optical depth	I	N	AVHRR	NOAA	BL	1/wk [d,n]	1.25 dg :: Ocean	N/A :: Atmos
		351	cloud liquid water path	I	N	MSU	NOAA	BL	2/day[d,n], 7 mo	150 km :: G	N/A :: Atmos
		352	cloud liquid water path	I	N	SSM/I	DMSP	BL	2/day[d,n], 7 mo	2.5 dg :: Ocean	N/A :: Atmos
		353	cloudiness properties	I	N		model	BL			
		354	temperature profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		355	temperature profiles	I	N		INSAT, METEOSAT, NOAA / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		356	land surface skin temperature	I	N		in situ	BL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		357	radiance 5 channels	I	N	AVHRR-LAC	NOAA	BL	1/day [d,n], 1 yr	1 km :: Polar (65-90 dg, N/S)	N/A :: Atmos
		358	radiance 5 channels	I	N	AVHRR-GAC	NOAA	BL	2/day [d,n], 7 sel. mo	4.0 km :: G	N/A :: Atmos
		359	radiance	I	N	HIRS	NOAA	BL	2/day [d,n], 7 mo	17 km :: G	N/A :: Atmos
		360	radiance	I	N	TM	Landstat	BL	100 scenes	30 m :: R	N/A :: Atmos
		361	planetary boundary height	I	N		model	BL			
		362	precipitation rate	I	N	SSM/I	NOAA	BL	2/day [d,n], 7 mo	150 km :: G	N/A :: Atmos
		363	water vapor	I	N		model	BL			
		364	cloud liquid water path	I	N	TM	TRMM	AL	2/day [d,n]	25 km :: G	N/A :: Atmos
		365	CO2 conc	I	N			AL	1/yr	:: G	N/A :: Atmos
		366	geopotential	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		367	humidity profile	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	2 km :: Atmos
		368	cloud data (TRMM)	I	N		GMS, GOES / ISCCP	AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		369	cloud data (TRMM)	I	N		INSAT, METEOSAT, NOAA / ISCCP	AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		370	land surface temperature, skin	I	N	HIRS	ESA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		371	land surface temperature, skin (TRMM)	I	N	HIRS	NOAA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		372	radiance	I	N	AVHRR-LAC	ESA	AL	2/day [d,n]	1 km :: G; subsampled 2x2 pixel	N/A :: Atmos
		373	radiance	I	N	AVHRR-GAC	TRMM	AL	2/day [d,n]	2 km :: G	N/A :: Atmos
		374	radiance	I	N	HIRS	ESA	AL	2/day [d,n]	17 km :: G	N/A :: Atmos
		375	radiance	I	N	HIRS	NOAA / TRMM	AL	2/day [d,n]	17 km :: G	N/A :: Atmos
		376	radiance	I	N	VAS/VISSR	GOES	AL	12/day [d,n]	4 km :: R [30 - 10x10dg regions]	N/A :: Atmos

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cloud Retrievals (811)	Berknerom	377	precipitation rate	I	N	TMI	TRMM	AL	2/day [d,n]	22 km :: G	N/A :: Sfc
		378	sea surface temperature (SST)	I	N	AVHRR	TRMM	AL	1/wk	1.25 dg :: Ocean	N/A :: Sfc
		379	temperature profile	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		380	temperature profile (TRMM)	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		381	topographic elevation	I	N		in situ	AL	1/mission	10 km :: Land	N/A :: Sfc
		382	wind velocity	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		797	humidity (q) profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		798	O3 profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		799	cloud data	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		800	humidity (q) profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
Surface Fluxes and Flux Divergence (813)	Berknerom	801	O3 profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		802	cloud data	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		846	sea surface temperature (SST)	I	N	AVHRR	TRMM,AM,PM	BL	1/wk, 7 scl. mo	100 km :: Ocean	N/A :: Sfc
		2043	Land, sfc Reflectance, Bi-directional, SW, Broadband, (BRDF)	O	E	CERES	TRMM,AM,PM	AL		10 dg [Angle] :: G	N/A :: Sfc, Atmos
		2144	Radiative Flux Divergence, Clear-sky	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	lyr :: Atmos
		2145	Radiative Flux Divergence, Clear-sky	O	E	CERES	TRMM,AM,PM	AL	6/day [d,n]	1.25 dg :: G	lyr :: Atmos
		2146	Radiative Flux Divergence, Clear-sky	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	lyr :: Atmos
		2147	Radiative Flux Divergence, Cloudy-sky	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	lyr :: Atmos
		2148	Radiative Flux Divergence, Cloudy-sky	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	lyr :: Atmos
		2149	Radiative Flux Divergence, Cloudy-sky	O	E	CERES	TRMM,AM,PM	AL	6/day [d,n]	1.25 dg :: G	lyr :: Atmos
		2168	Radiative Flux, LW, Down	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2169	Radiative Flux, LW, Down	O	E	CERES	TRMM,AM,PM	AL	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2170	Radiative Flux, LW, Down	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Sfc
		2180	Radiative Flux, LW, Net	O	E	CERES	TRMM,AM,PM	AL	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2181	Radiative Flux, LW, Net	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Sfc
		2182	Radiative Flux, LW, Net	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2201	Radiative Flux, LW, Up	O	E	CERES	TRMM,AM,PM	AL	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2202	Radiative Flux, LW, Up	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Sfc
		2203	Radiative Flux, LW, Up	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2221	Radiative Flux, SW, Down	O	E	CERES	TRMM,AM,PM	AL	3/day [d]	1.25 dg :: G	N/A :: Sfc
		2222	Radiative Flux, SW, Down	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2223	Radiative Flux, SW, Down	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Sfc
		2229	Radiative Flux, SW, Net	O	E	CERES	TRMM,AM,PM	AL	3/day [d]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2230	Radiative Flux, SW, Net	O	E	CERES	TRMM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2231	Radiative Flux, SW, Net	O	E	CERES	TRMM,AM,PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Surface Fluxes and Flux Divergence (813)	Barkstrom	2247	Radiative Flux, SW, Up	O	E	CERES	TRM,AM,PM	AL	3/day [d]	1.25 dg :: G	N/A :: Sfc
		2248	Radiative Flux, SW, Up	O	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
		2250	Radiative Flux, SW, Up	O	E	CERES	TRM,AM,PM	AL	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	Column :: Atmos
		1393	Cloud Height, Base	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	0.1 km :: Atmos
		1429	Cloud Height, Top	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	0.1 km :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1768	Cloud Drop Phase	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		1896	Cloud Liq. water Content	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	lyr :: Atmos
		1900	Cloud Liq. water Total Column	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	Column :: Atmos
		2086	Cloud Cover	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2249	Radiative Flux, SW, Up	I	E	CERES	TRM,AM,PM	AL	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: TOA
		2316	Cloud Optical Depth, LW	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2321	Cloud Optical Depth, SW	I	E	CERES	TRM,AM,PM	AL	3/day [d]	25 km :: G	N/A :: Atmos
		350	aerosol optical depth	I	N	AVHRR	NOAA	BL	1/wk [d,n]	1.25 dg :: Ocean	N/A :: Atmos
		351	cloud liquid water path	I	N	MSU	NOAA	BL	2/day [d,n], 7 mo	150 km :: G	N/A :: Atmos
		352	cloud liquid water path	I	N	SSM/I	DMSR	BL	2/day [d,n], 7 mo	2.5 dg :: Ocean	N/A :: Atmos
		353	cloudiness properties	I	N		model	BL			
		354	temperature profiles	I	N	GMS, GOES / ISCCP		BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		355	temperature profiles	I	N	INSAT, METEOSAT, NOAA / ISCCP		BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		356	land surface skin temperature	I	N		in situ	BL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		357	radiance: 5 channels	I	N	AVHRR-LAC	NOAA	BL	1/day [d,n], 1 yr	1 km :: Polar (65-90 dg, N/S)	N/A :: Atmos
		358	radiance: 5 channels	I	N	AVHRR-GAC	NOAA	BL	2/day [d,n], 7 sel. mo	4.0 km :: G	N/A :: Atmos
		359	radiance	I	N	HIRS	NOAA	BL	2/day [d,n], 7 mo	17 km :: G	N/A :: Atmos
		360	radiance	I	N	TM	Landstat	BL	100 scenes	30 m :: R	N/A :: Atmos
		361	planetary boundary height	I	N	SSM/I	model	BL			
		362	precipitation rate	I	N		model	BL	2/day [d,n], 7 mo	150 km :: G	N/A :: Atmos
		363	water vapor	I	N		model	BL			
		364	cloud liquid water path	I	N	TMI	TRMM	AL	2/day [d,n]	25 km :: G	N/A :: Atmos
		365	CO2 conc	I	N			AL	1/yr	:: G	N/A :: Atmos
		366	geopotential	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		367	humidity profile	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	2 km :: Atmos
		368	cloud data (TRMM)	I	N	GMS, GOES / ISCCP		AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		369	cloud data (TRMM)	I	N	INSAT, METEOSAT, NOAA / ISCCP		AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		370	land surface temperature, skin	I	N	HIRS	ESA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		371	land surface temperature, skin (TRMM)	I	N	HIRS	NOAA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		372	radiance	I	N	AVHRR-LAC	ESA	AL	2/day [d,n]	1 km :: G; subsampled 2x2 pixel	N/A :: Atmos
		373	radiance	I	N	AVHRR-GAC	TRMM	AL	2/day [d,n]	2 km :: G	N/A :: Atmos
		374	radiance	I	N	HIRS	ESA	AL	2/day [d,n]	17 km :: G	N/A :: Atmos
		375	radiance	I	N	HIRS	NOAA / TRMM	AL	2/day [d,n]	17 km :: G	N/A :: Atmos

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Surface Fluxes and Flux Divergence (813)	Berkstrom	376	radiance	I	N	VAS/ISSR	GOES	AL	12/day [d.n]	4 km :: R [30 - 10x10dg regions]	N/A :: Atmos
		377	precipitation rate	I	N	TMI	TRMM	AL	2/day [d.n]	22 km :: G	N/A :: Atmos
		378	sea surface temperature (SST)	I	N	AVHRR	TRMM	AL	1/wk	1.25 dg :: Ocean	N/A :: Sfc
		379	temperature profile	I	N		in situ	AL	4/day [d.n]	1.25 dg :: G	1 km :: Atmos
		380	temperature profile (TRMM)	I	N		in situ	AL	4/day [d.n]	1.25 dg :: G	1 km :: Atmos
		381	topographic elevation	I	N		in situ	AL	1/mission	10 km :: Land	N/A :: Sfc
		382	wind velocity	I	N		in situ	AL	4/day [d.n]	1.25 dg :: G	1 km :: Atmos
		797	humidity (q) profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		798	O3 profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		799	cloud data	I	N		GMS, GOES / ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		800	humidity (q) profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		801	O3 profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		802	cloud data	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		846	sea surface temperature (SST)	I	N	AVHRR	TRMM/AM/PM	BL	1/wk, 7 scl. mo	100 km :: Ocean	N/A :: Sfc
		2200	Radiative Flux, LW, Up	O	E	CERES	TRMM/AM/PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: TOA
TOA Fluxes (CERES) (812)	Berkstrom	2204	Radiative Flux, LW, Up	O	E	CERES	TRMM/AM/PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: TOA
		2205	Radiative Flux, LW, Up	O	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	N/A :: TOA
		2246	Radiative Flux, SW, Up	O	E	CERES	TRMM/AM/PM	AL	3/day [d]	1.25 x 1.25 dg :: G	N/A :: TOA
		2249	Radiative Flux, SW, Up	O	E	CERES	TRMM/AM/PM	AL	1/6 hr	1.25 x 1.25 dg :: G	N/A :: TOA
		2251	Radiative Flux, SW, Up	O	E	CERES	TRMM/AM/PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: TOA
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [d.n]	50 km :: G	Column :: Atmos
		1429	Cloud Height, Top	I	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	0.1 km :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d.n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1768	Cloud Drop Phase	I	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	N/A :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d.n] *	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2086	Cloud Cover	I	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	N/A :: Atmos
		2316	Cloud Optical Depth, LW	I	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	N/A :: Atmos
		2321	Cloud Optical Depth, SW	I	E	CERES	TRMM/AM/PM	AL	6/day [d.n]	25 km :: G	N/A :: Atmos
		2359	Level-1B Radiance, CERES	I	E	CERES	TRMM/AM/PM	AL	3/day [d]	25 km :: G	N/A :: N/A
		350	aerosol optical depth	I	N	AVHRR	NOAA	BL	6/day [d.n]	25 km :: G	N/A :: N/A
		351	cloud liquid water path	I	N	MSU	NOAA	BL	1/wk [d.n]	1.25 dg :: Ocean	N/A :: Atmos
		352	cloud liquid water path	I	N	SSM/I	DMSP	BL	2/day [d.n], 7 mo	150 km :: G	N/A :: Atmos
		353	cloudiness properties	I	N	SSM/I	model	BL	2/day [d.n], 7 mo	2-3 dg :: Ocean	N/A :: Atmos
		354	temperature profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		355	temperature profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d.n]	280 km :: G	3 km :: Atmos
		356	land surface skin temperature	I	N		in situ	BL	4/day [d.n]	1.25 dg :: Land	N/A :: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
TOA Fluxes (CERES) (812)	Berkstrom	337	radiance: 5 channels	I	N	AVHRR-LAC	NOAA	BL	1/day [d,n], 1 yr	1 km :: Polar (65-90 dg, N/S)	N/A :: Atmos
		338	radiance: 5 channels	I	N	AVHRR-GAC	NOAA	BL	2/day [d,n], 7 sel. mo	4.0 km :: G	N/A :: Atmos
		339	radiance	I	N	HIRS	NOAA	BL	2/day [d,n], 7 mo	17 km :: G	N/A :: Atmos
		360	radiance	I	N	TM	Landat	BL	100 scenes	30 m :: R	N/A :: Atmos
		361	planetary boundary height	I	N		model	BL			N/A :: Atmos
		362	precipitation rate	I	N	SMM/I	NOAA	BL	2/day [d,n], 7 mo	150 km :: G	N/A :: Atmos
		363	water vapor	I	N		model	BL			N/A :: Atmos
		364	cloud liquid water path	I	N	TMI	TRMM	AL	2/day [d,n]	25 km :: G	N/A :: Atmos
		365	CO2 conc	I	N			AL	1/yr	:: G	N/A :: Atmos
		366	geopotential	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		367	humidity profile	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	2 km :: Atmos
		368	cloud data (TRMM)	I	N		GMS, GOES / ISCCP	AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		369	cloud data (TRMM)	I	N		INSAT, METEOSAT, NOAA/ISCCP	AL	8/day [d,n]	280 km :: G	3 km :: Atmos
		370	land surface temperature, skin	I	N	HIRS	ESA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		371	land surface temperature, skin (TRMM)	I	N	HIRS	NOAA	AL	4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		372	radiance	I	N	AVHRR-LAC	ESA	AL	2/day [d,n]	1 km :: G; subsampled 2x2 pixel	N/A :: Atmos
		373	radiance	I	N	AVHRR-GAC	TRMM	AL	2/day [d,n]	2 km :: G	N/A :: Atmos
		374	radiance	I	N	HIRS	ESA	AL	2/day [d,n]	17 km :: G	N/A :: Atmos
		375	radiance	I	N	HIRS	NOAA/TRMM	AL	2/day [d,n]	17 km :: G	N/A :: Atmos
		376	radiance	I	N	VAS/VISSR	GOES	AL	12/day [d,n]	4 km :: R [30 - 10x10dg regions]	N/A :: Atmos
		377	precipitation rate	I	N	TMI	TRMM	AL	2/day [d,n]	22 km :: G	N/A :: Atmos
		378	sea surface temperature (SST)	I	N	AVHRR	TRMM	AL	1/wk	1.25 dg :: Ocean	N/A :: Sfc
		379	temperature profile	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		380	temperature profile (TRMM)	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		381	topographic elevation	I	N		in situ	AL	1/mission	10 km :: Land	N/A :: Sfc
		382	wind velocity	I	N		in situ	AL	4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		797	humidity (q) profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		798	O3 profiles	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		799	cloud data	I	N		GMS, GOES / ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		800	humidity (q) profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		801	O3 profiles	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
		802	cloud data	I	N		INSAT, METEOSAT, NOAA/ISCCP	BL	8/day [d,n]	280 km :: G	3 km :: Atmos
Aerosol Properties (802)	Travis	846	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL	1/wk, 7 sel. mo	100 km :: Ocean	N/A :: Sfc
		2297	Aerosol Optical Depth	O	E	EOSP	AERO_AM2	AL	1/day [d]	40 km :: G	Column :: Atmos
		1012	Aerosol Extinction Coef	I	E	SAGE-III	AERO_CHEM	AL	1/2 min, 30/day	<2 x <1 dg :: G	1 km :: 0-40 km
		1993	Aerosol Size-distribution	I	E	MISR	AM	AL	1/5-16 day [d]	15.4 km :: G	Column :: Atmos
		2293	Aerosol Optical Depth, Spectral	I	E	MODIS	AM_PM	AL	1/day, 1/mo	0.5 dg :: Land	N/A :: Atmos



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (h)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Aerosol Properties (802)	Travis	2299	Aerosol Optical Depth	I	E	MISR	AM	AL	1/(5-16 day) [d]	15.4 km :: G	Column :: Atmos
		2336	Level-1B Polarization, EOSP	I	E	EOSP	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		2362	Level-1B Radiance, EOSP	I	E	EOSP	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		2353	Level-2 Radiance, Atmos corrected, EOSP	O	E	EOSP	AERO-AM2	AL	1/day [d]	40 km :: G	N/A :: N/A
Atmospheric Correction (803)	Travis	2336	Level-1B Polarization, EOSP	I	E	EOSP	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		2362	Level-1B Radiance, EOSP	I	E	EOSP	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		1530	Cloud Pressure, Top	O	E	EOSP	AERO-AM2	AL	1/day [d]	40 km :: G	30 mb :: Cloud
		1770	Cloud Drop Phase	O	E	EOSP	AERO-AM2	AL	1/day [d]	100 km :: G	N/A :: Cloud
Cloud Properties (801)	Travis	1774	Cloud Drop Size	O	E	EOSP	AERO-AM2	AL	1/day [d]	100 km :: G	N/A :: Cloud
		2313	Cloud Optical Depth	O	E	EOSP	AERO-AM2	AL	1/day [d]	40 km :: G	Column :: Cloud
		1423	Cloud Height, Top	I	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		1427	Cloud Height, Top	I	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1763	Cloud Drop Phase	I	E	ASTER	AM1	AL	1/(16 day)	15-30 m :: L	N/A :: Cloud
		1767	Cloud Drop Phase	I	E	CERES	TRM-AM, PM	AL	1/day (Avg), 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
		1780	Cloud Drop Size (Effective Radius)	I	E	MODIS	AM, PM	AL	1/day	5 km :: G	N/A :: Cloud
		1782	Cloud Drop Size (Effective Radius)	I	E	CERES	TRM-AM, PM	AL	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Atmos
		2081	Cloud Cover	I	E	MODIS	AM, PM	AL	2/day [d,n], 1/mo	5 km :: G	N/A :: Cloud
		2086	Cloud Cover	I	E	CERES	TRM-AM, PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2310	Cloud Optical Depth	I	E	ASTER	AM1	AL	1/(16 day)	15-30 m :: L	N/A :: Cloud
		2321	Cloud Optical Depth, SW	I	E	MODIS	AM, PM	AL	1/day [d]	5 km :: G	N/A :: Cloud
		2336	Level-1B Polarization, EOSP	I	E	EOSP	TRM-AM, PM	AL	3/day [d]	25 km :: G	N/A :: Atmos
GGI Products (994)	Melbourne	2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		2362	Level-1B Radiance, EOSP	I	E	EOSP	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AERO-AM2	AL	1/day [d]	10-70 km :: G	N/A :: N/A
		655	digital elevation model (5 km resolution)	I	N		AM, PM	AL	1/day	0.25 km :: G	N/A :: N/A
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		9008	Platform POD Data (not a proposed official)	I	E	ALT	ALT				
		9009	EOS output product fo	I	E	GLRS-A	ALT				
			EOS output product fo	I	E						
		81	geophysical records with reference ephemeris	I	N		GPS	BL			
GLRS-A Products (995)	Cohen	95	down-looking dual frequency radio data	I	N		PRARE	BL			
		97	solar activity (sunspot, flare)	I	N		SMM	BL			
		338	O3 data	I	N	GOMR	NOAA				
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		40	glaciological data (elevation)	I	N			BL			
		61	ice sheet topography	I	N		in situ (aircraft)	BL			
		62	altimetry	I	N	laser	Shuttle	BL			
		63	altimetry	I	N	laser		BL			
		81	geophysical records with reference ephemeris	I	N		GPS	BL			
		1055	CFC-11 (CFC13) Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-30 km
Atmospheric Temperature/Constituent Profiles (701)	Barnett	1202	HNO3 Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 10-40 km
		1239	N2O Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-60 km
		1254	N2O5 Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 15-45 km
		1273	NO2 Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 10-55 km



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Atmospheric Temperature/Constituent Profiles (701)	Barnett	1318	O3 Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
		1408	Cloud Height, PSC	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	0.4 km :: Strat
		1524	Pressure	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	0.2 km :: 7-80 km
		1531	Cloud Pressure, Top	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	0.4 km :: Trop
		1608	Temperature Profile	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
		1837	H2O Conc	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
		1992	Aerosol Extinction Coef	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-30 km
		1012	Aerosol Extinction Coef	I	E	SAGE-III	AERO,CHEM	AL	1/2 min, 30/day	<2 x <1 dg :: G	1 km :: 0-40 km
		1423	Cloud Height, Top	I	E	AIRS	PM	PL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1770	Cloud Drop Phase	I	E	BOSP	AERO,AM2	AL	1/day [d]	100 km :: G	N/A :: Cloud
		1774	Cloud Drop Size	I	E	BOSP	AERO,AM2	AL	1/day [d]	100 km :: G	N/A :: Cloud
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		1993	Aerosol Size-distribution	I	E	MISR	AM	AL	1/5-16 day [d]	15.4 km :: G	Column :: Atmos
		2062	Cloud Cover	I	E	AIRS	PM	AL	2/day [d,n]	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	15 x 15 km :: G	N/A :: N/A
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
		2350	Level-1B Radiance, AMSU-A	I	E	AIRS(AMSU-A)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2352	Level-1B Radiance, MHIS	I	E	AIRS(MHIS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2369	Level-1B Radiance, HIRDLS	I	E	HIRDLS	CHEM	AL	2/day [d,n]	15 x 15 - 50 x 50 km :: G	N/A :: Cloud
		2463	Cloud Temperature, Top	I	E	AIRS	PM	AL	2/day [d,n]		
		157	Temperature analysis	I	N						
		344	atmospheric composition data	I	N		in situ (balloon, aircraft)				
Geopotential Height Gradient/Geostrophic Wind (702)	Barnett	1500	Geopotential Height-Gradient	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 15-80 km
		1687	Wind Velocity, Geostrophic	O	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
		1524	Pressure	I	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	0.2 km :: 7-80 km
		1608	Temperature Profile	I	E	HIRDLS	CHEM	AL	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
Aerosol Optical Depth (894)	Gerstl	158	geopotential height analysis	I	N		model				
		2292	Aerosol Optical Depth	O	E	HIRIS	AM2	AL	1/(2-16 day)	100 m :: L	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		652	visible and IR images	I	N	VISSR	GOES	AL			
		839	aerosol climatology	I	N	sun photometer	in situ (ground)	BL			
		2037	Cloud Reflectance, Bi-directional, (BRDF)	O	E	HIRIS	AM2	AL		30 m :: R	:: Cloud
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
Bi-directional Cloud Reflectance (885)	Weich	816	cloud reflectance, bi-directional, (BRDF)	I	N	Personal Spectrometer II	in situ (aircraft)	BL			
		2029	PAR, Absorbed, Non-vegetative, (APAR)	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
Canopies Physiological & Structural Properties (876)	Ustin, Weasman	2030	PAR, Absorbed, Vegetative, (APAR)	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2614	Vegetation Biomass, Dead	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2620	Vegetation Biomass, Green	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2653	Vegetation Chlorophyll Conc	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Canopies Physiological & Structural Properties (876)	Ustin, Weisman	2656	Vegetation Crown Height	O E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		2657	Vegetation Crown Spacing	O E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		2746	Vegetation Index	O E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		2370	Level-1B Radiance, HIRIS	I E	HIRIS	AM2	AL			
		2741	Vegetation Cover	I E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		16	scene radiances	I N	TM	LandSat	BL			
		817	digital elevation model-7.5 min (DEM)	I N		in situ	BL		7.5 min :: L	
		820	forest ecosystem products (foliar canopy mass, foliar chemistry-)	I N		in situ	BL			
		825	scene radiances, vegetation	I N	ASAS	in situ (aircraft)	BL			
		826	scene radiances, vegetation	I N	AVIRIS	in situ (aircraft)	BL			
		2564	Chlorophyll_a Conc, Phytoplankton, Case-I Waters	O E	HIRIS	AM2	AL	1/2 day) [d]	30-90 m :: Ocean-I/L	N/A :: TOO
Chlorophyll-A Concentration, Case I Waters (854)	Carder, Davis	2370	Level-1B Radiance, HIRIS	I E	HIRIS	AM2	AL			
		18	ocean color / chlorophyll data	I N	CZCS	Nimbus-7	BL			
		32	ocean color data	I N	SeaWiFS	Seasat	BL			
		192	optical and constituent data sets	I N		in situ				
		335	ocean color / temperature data	I N	OCTS	ADEOS				
		811	calibration/verification optical data	I N		in situ (ship)	PL			
		821	ocean color data	I N	AVIRIS	in situ (aircraft)	BL			
		2565	Chlorophyll_a Conc, Case-II Waters	O E	HIRIS	AM2	AL	1/2 day) [d]	60-90 m :: Ocean-II/L	N/A :: TOO
		2370	Level-1B Radiance, HIRIS	I E	HIRIS	AM2	AL			
		3215	Gelbstoff Absorption Coef@410nm	I E	HIRIS	AM2	AL	1/2 day) [d]	30-90 m :: Ocean-I/L	N/A :: TOO
		18	ocean color / chlorophyll data	I N	CZCS	Nimbus-7	BL			
Chlorophyll-A Concentration, Case II Waters (855)	Carder, Melack	32	ocean color data	I N	SeaWiFS	Seasat	BL			
		149	total suspended matter concentration	I N		in situ (ship)	AL		5 m :: Ocean/L	:: Sfc
		150	organic suspended matter concentration	I N		in situ (ship)	AL		5 m :: Ocean/L	:: Sfc
		151	inorganic suspended matter concentration	I N		in situ (ship)	AL		5 m :: Ocean/L	:: Sfc
		192	optical and constituent data sets	I N		in situ				
		335	ocean color / temperature data	I N	OCTS	ADEOS				
		811	calibration/verification optical data	I N		in situ (ship)	PL			
		821	ocean color data	I N	AVIRIS	in situ (aircraft)	BL			
		1390	Cloud Height, Base	O E	HIRIS	AM2	AL	1/2-16 day	30 m :: L	N/A :: Cloud
		2370	Level-1B Radiance, HIRIS	I E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Cloud Base Height (883)	Welch	2392	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		24	cloud data	I N	AVHRR	NOAA	PL			
		813	cloud data	I N		in situ / FIRE	BL			
		814	cloud data	I N		in situ / STORM	BL			
		815	cloud imagery	I N	AVIRIS		BL			
		1503	Cloud Field Structure	O E	HIRIS	AM2	AL		:: L	
		1509	Cloud Field Organization scale	O E	HIRIS	AM2	AL		:: L	
		2370	Level-1B Radiance, HIRIS	I E	HIRIS	AM2	AL			
		24	cloud data	I N	AVHRR	NOAA	PL			
		813	cloud data	I N		in situ / FIRE	BL			
		814	cloud data	I N		in situ / STORM	BL			
		815	cloud imagery	I N	AVIRIS		BL			
Cloud Fractional Area and Albedo	Welch	2008	Albedo, Cloud	O E	HIRIS	AM2	AL		90 m :: R	:: Cloud

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cloud Fractional Area and Albedo (879)	Welch	2079	Cloud Cover	O	E	HIRIS	AM2	AL	1/(1-3 min), 1/(2-16 day)	30 m :: L	:: Cloud
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		24	cloud data	I	N	AVHRR	NOAA	PL			
		813	cloud data	I	N		in situ / FIRE	BL			
		814	cloud data	I	N		in situ / STORM	BL			
		815	cloud imagery	I	N	AVIRIS		BL			
Cloud Liquid Water Content (884)	Welch	2281	Cloud Liq. water Content	O	E	HIRIS	AM2	AL		90 m :: R	:: Cloud
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		24	cloud data	I	N	AVHRR	NOAA	PL			
		813	cloud data	I	N		in situ / FIRE	BL			
		814	cloud data	I	N		in situ / STORM	BL			
		815	cloud imagery	I	N	AVIRIS		BL			
Cloud Optical Thickness, Phase and Radius (881)	Welch	1762	Cloud Drop Phase	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: L	N/A :: Cloud
		1776	Cloud Drop Size-distribution	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: L	:: Cloud
		1778	Cloud Drop Size(Effective Radius)	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: L	:: Cloud
		2309	Cloud Optical Depth	O	E	HIRIS	AM2	AL	1/(1-3 min), 1/(2-16 day)	30 m :: L	N/A :: Cloud
		1427	Cloud Height, Top	I	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		1528	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		24	cloud data	I	N	AVHRR	NOAA	PL			
		813	cloud data	I	N		in situ / FIRE	BL			
		814	cloud data	I	N		in situ / STORM	BL			
		815	cloud imagery	I	N	AVIRIS		BL			
		1426	Cloud Height, Top	O	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: L	N/A :: Cloud
Cloud Top Height (882)	Welch, Goetz	1427	Cloud Height, Top	I	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		1528	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		24	cloud data	I	N	AVHRR	NOAA	PL			
		813	cloud data	I	N		in situ / FIRE	BL			
		814	cloud data	I	N		in situ / STORM	BL			
		815	cloud imagery	I	N	AVIRIS		BL			
		2432	Land, life Reflectance, Directional	O	E	HIRIS	AM2	AL	1/mo	30 m :: Land/R/L	N/A :: S/c
Directional Land Surface Reflectance (874)	Slater	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		33	scene radiances	I	N		SPOT	BL			
		177	radiance based calibration	I	N		ER-2				
		182	calibration data for ASTER	I	N	SWIR spectrometer	in situ				
		183	calibration data for ASTER	I	N	spectrometer	in situ (helicopter)				
Dissolved Organic Matter Concentration (858)	Carder, Melack	3314	Organic Matter Conc, Dissolved	O	E	HIRIS	AM2		(>=2)/day	30-90 m :: Ocean/L+Land/Lakes	N/A :: TOO

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Dissolved Organic Matter Concentration (858)	Carder, Melack	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		3215	Gelbstoff Absorption Coef@410nm	I	E	HIRIS	AM2	AL	1/(2 day) [d]	30-90 m :: Ocean-L/L	N/A :: TOO
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	in situ	BL			
		192	optical and constituent data sets	I	N						
		335	ocean color / temperature data	I	N	OCTS	ADEOS				
		811	calibration/verification optical data	I	N			PL			
		821	ocean color data	I	N	AVIRIS	in situ (ship)				
		2741	Vegetation Cover	O	E	HIRIS	AM2	BL			N/A :: S/c
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	
Fractional Vegetation Cover (889)	Usin, Weisman	16	scene radiances	I	N	TM	Landsat	BL			
		825	scene radiances, vegetation	I	N	ASAS	in situ (aircraft)	BL			
		826	scene radiances, vegetation	I	N	AVIRIS	in situ (aircraft)	BL			
		3315	Gelbstoff Absorption Coef@410nm	O	E	HIRIS	AM2	AL	1/(2 day) [d]	30-90 m :: Ocean-L/L	N/A :: TOO
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	in situ	BL			
		192	optical and constituent data sets	I	N						
		335	ocean color / temperature data	I	N	OCTS	ADEOS				
		811	calibration/verification optical data	I	N			PL			
Geologic Mapping of Remote Regions (868)	Kieffer	821	ocean color data	I	N	AVIRIS	in situ (aircraft)	BL			N/A :: S/c
		2884	Landform S/c units, Geologic	O	E	HIRIS	AM2	AL		30 m :: L	
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		824	spectral reflectance, geologic mapping	I	N	AVIRIS	in situ (aircraft)	BL			
		835	spectral reflectance	I	N	TMS	in situ (aircraft)	BL			
		836	spectral reflectance	I	N	VNIR portable spectro-radiometer	in situ	BL			
		2895	Glacier Displacement	O	E	HIRIS	AM2	AL	1/yr	30 m :: Glacier/L	N/A :: S/c
		2930	Glacier Velocity	O	E	HIRIS	AM2	AL	1/yr	100 m :: Land/Cryo	N/A :: S/c
		2932	Ice Sheet Velocity (Outflow), Polar	O	E	HIRIS	AM2	AL	1/yr	100 m :: Cryo	N/A :: S/c
Land Surface Bi-directional Reflectance (895)	Kieffer	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		824	spectral reflectance, geologic mapping	I	N	AVIRIS	in situ (aircraft)	BL			
		835	spectral reflectance	I	N	TMS	in situ (aircraft)	BL			
		836	spectral reflectance	I	N	VNIR portable spectro-radiometer	in situ	BL			
		2035	Land_sfc Reflectance, Bi-directional, (BRDF)	O	E	HIRIS	AM2	AL	1/(16 day)	30 m :: Land/L	N/A :: S/c
		2347	Level-1B Radiance, AIRS	I	E	AIRS[AIRS]	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R/L	N/A :: TOA
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
Mineral Thermal History & Relative Abundance (870)	Rowan, Clark	2766	Mineral(CO3) Relative Abundance	O	E	HIRIS	AM2	AL	1/dec	30 m :: Land/L	N/A :: S/c
		2772	Mineral(Fe) Relative Abundance	O	E	HIRIS	AM2	AL	1/dec	30 m :: Land/L	N/A :: S/c
		2774	Mineral Thermal history	O	E	HIRIS	AM2	AL	1/dec	30 m :: Land/L	N/A :: S/c

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Mineral Thermal History & Relative Abundance (870)	Rowan, Clark	2776	Mineral(OH) Relative Abundance	O	E	HIRIS	AM2	AL	1/secs	30 m :: Land/L	N/A :: Sfc
		2784	Mineral(SO4) Relative Abundance	O	E	HIRIS	AM2	AL	1/secs	30 m :: Land/L	N/A :: Sfc
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			N/A :: Sfc
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		16	scene radiances	I	N	TM	Landat	BL			
		830	spectral reflectance, mineral	I	N	AVIRIS	in situ (aircraft)	BL			
		831	spectral reflectance, mineral	I	N	TMAS	in situ (aircraft)	BL			
		832	spectral reflectance, mineral	I	N	VNIR portable spectro-radiometer	in situ	BL			
		837	stereoscopic images	I	N		SPOT	BL			
		2601	Ocean Productivity, Primary, Level-1B Radiance, HIRIS	O	E	HIRIS	AM2	AL	1/(>=2 day)	30-90 m :: Ocean/L	N/A :: TOO
Ocean Primary Productivity (862)	Davis, Melack	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2565	Chlorophyll a Conc, Case-II Waters	I	E	HIRIS	AM2	AL	1/2 day [d]	60-90 m :: Ocean-IL/L	N/A :: TOO
		32	ocean color data	I	N	SeaWiFS	Seastar	BL			
		335	ocean color / temperature data	I	N	OCTS	ADEOS				
		818	field data (pigments, phytoplankton abundance & species, phology)	I	N	OCTS	in situ	BL			
		821	ocean color data	I	N	AVIRIS	in situ (aircraft)	BL			
		822	ocean physics and biological data	I	N		in situ	BL			
		823	radiance, upwelling / downwelling	I	N		in situ	BL			
		3210	Ocean Water Backscatter Coef@565nm	O	E	HIRIS	AM2	AL	1/2 day [d]	30-90 m :: Ocean/L	N/A :: Sfc
Ocean Water Backscatter Coef@565nm (857)	Corder, Melack	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	Seastar	BL			
		192	optical and constituent data sets	I	N		in situ				
		335	ocean color / temperature data	I	N	OCTS	ADEOS				
		811	calibration/verification optical data	I	N		in situ (ship)	PL			
		821	ocean color data	I	N	AVIRIS	in situ (aircraft)	BL			
		823	radiance, upwelling / downwelling	I	N		in situ	BL			
		833	spectral reflectance	I	N	AVIRIS	in situ (aircraft)	BL			
		3072	Pigment Conc, Accessory	O	E	HIRIS	AM2	AL	1/(>=2 day)	60-90 m :: Ocean-IL/L	N/A :: TOO
Phytoplankton Type (860)	Davis, Melack	3316	Phytoplankton Type	O	E	HIRIS	AM2		(>=2)/day	60-90 m :: Ocean/L+Land/Lakes	N/A :: TOO
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		32	ocean color data	I	N	SeaWiFS	Seastar	BL			
		192	optical and constituent data sets	I	N		in situ				
		335	ocean color / temperature data	I	N	OCTS	ADEOS				
		818	field data (pigments, phytoplankton abundance & species, phology)	I	N		in situ	BL			
		821	ocean color data	I	N	AVIRIS	in situ (aircraft)	BL			
		822	ocean physics and biological data	I	N		in situ	BL			
		1872	Precipitable Water	O	E	HIRIS	AM2	AL	1/(1-3 min), 1/2-16 day	30 m :: L	Column :: Atmos
Precipitable Water (865)	Goetz	1873	Precipitable Water	O	E	HIRIS	AM2	AL	1/(1-3 min), 1/2-16 day	30 m :: L	Column :: Trop
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		16	scene radiances	I	N	TM	Landat	BL			

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Precipitable Water (865)	Goetz	33	scene radiances	I	N		SPOT	BL			
		187	digital elevation model (surface topography)	I	N			AL	one time only	0.1 dg	
		383	surface elevation	I	N		SPOT	BL	N/A	20 m :: Land/L	
		767	water vapor	I	N	AVIRIS	in situ (aircraft)				
		828	soil spectral data	I	N	AVIRIS	in situ (aircraft)	BL			
		836	spectral reflectance	I	N	VNIR portable spectro-radiometer	in situ	BL			
		838	soil spectral data	I	N	field spectrometer	in situ	BL			
		2440	Snow Reflectance, Spectral	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Land/L	N/A :: Sfc
		2768	Snow Contaminant Conc	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Snow/L	N/A :: Sfc
		3038	Snow Grain Size	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 [km?] :: Snow/L	N/A :: Sfc
Reflectance of Snow and Glacier Ice (853)	Dozier	1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [dri]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R/L	N/A :: TOA
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		16	scene radiances	I	N	TM	Landstat	BL			
		33	scene radiances	I	N		SPOT	BL			
		396	snow contaminants	I	N		SPOT	BL			
		399	spectral albedo	I	N		SPOT	BL	1 wk - 1 mo	50 m :: Land/L	
		819	field data in snow regions	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		829	spectral data in snow regions	I	N	AVIRIS	in situ (aircraft)	BL			
		837	stereoscopic images	I	N		SPOT	BL			
		2922	Glacier Cover, Bare_Ice	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
		2943	Snow Liq-water Content	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Snow/L	N/A :: Sfc
		2978	Glacier Percolation Zone	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
		3019	Snow Cover	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Cryo/L	N/A :: Sfc
		3025	Snow Cover, Cold	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
		3029	Snow Cover, Wet	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
		3030	Snow Cover, Wet	O	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Cryo/L	N/A :: Sfc
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [dri]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R/L	N/A :: TOA
Suspended-Solids Concentration (859)	Carder, Melack	2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2440	Snow Reflectance, Spectral	I	E	HIRIS	AM2	AL	1/wk, 1/mo	50 m :: Land/L	N/A :: Sfc
		16	scene radiances	I	N	TM	Landstat	BL			
		33	scene radiances	I	N		SPOT	BL			
		383	surface elevation	I	N		SPOT	BL	N/A	20 m :: Land/L	
		402	snow covered area	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		404	snow covered area	I	N		SPOT	BL	1 wk - 1 mo	50 m :: Land/L	
		819	field data in snow regions	I	N		in situ	BL			
		829	spectral data in snow regions	I	N	AVIRIS	in situ (aircraft)	BL			
		3315	Suspended-Solids Conc, Ocean Water	O	E	HIRIS	AM2		(>=2)/day	30-90 m :: Ocean/L :: Land/Lakes	N/A :: TOO
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		3210	Ocean Water Backscatter Coef@565nm	I	E	HIRIS	AM2	AL	1/(2 day) [d]	30-90 m :: Ocean/L	N/A :: Sfc
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	Seasat	BL			
		149	total suspended matter concentration	I	N		in situ (ship)	AL		5 m :: Ocean/L	:: Sfc
		150	organic suspended matter concentration	I	N		in situ (ship)	AL		5 m :: Ocean/L	:: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Suspended-Solids Concentration (859)	Carder, Melack	151	inorganic suspended matter concentration	I	N		in situ (ship)	AL		5 m :: Ocean/L	
		192	optical and constituent data sets	I	N		in situ				
		335	ocean color /temperature data	I	N	OCTS	ADEOS				
		811	calibration/verification optical data	I	N		in situ (ship)	PL			
		821	ocean color data	I	N	AVIRIS	in situ (aircraft)	BL			
		833	spectral reflectance	I	N	AVIRIS	in situ (aircraft)	BL			
		2648	Vegetation Cellulose Conc	O	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
Vegetation Cellulose and Lignin Concentration (890)	Wessman	2687	Vegetation Lignin Conc	O	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2741	Vegetation Cover	I	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		812	canopy chemistry/biophysics data	I	N	AVIRIS	in situ (aircraft)	BL			
		820	forest ecosystem products (foliar canopy mass, foliar chemistry-)	I	N		in situ	BL			
		834	spectral reflectance	I	N	PIDAS	in situ	BL			
		2761	Vegetation Leaf-tissue Water Content	O	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
Vegetation Leaf-tissue Water Content (891)	Wessman	2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2741	Vegetation Cover	I	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		812	canopy chemistry/biophysics data	I	N	AVIRIS	in situ (aircraft)	BL			
		3294	Volcano-Activity Temperature	O	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		3299	Volcano-Activity Extent	O	E	HIRIS	AM2	AL	1/2-16 day	30 m :: Land/L	N/A :: Sfc
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
Volcano-Activity Extent and Temperature (871)	Rowan	16	scene radiances	I	N	TM	Landstat	BL			
		1756	Lightning Rate	O	E	LIS	TRM	AL		.07 dg :: G	N/A :: Atmos
		3642	Lightning Occurrence (Location,Time)	O	E	LIS	TRM	AL		.07 dg :: G	N/A :: Atmos
		3643	Lightning Radiant Energy	O	E	LIS	TRM	AL		.07 dg :: G	N/A :: Atmos
		1425	Cloud Height, Top	I	E	GLRS-A	ALT	AL	1/2-16 day	200 m :: G	75 m :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL		15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
Lightning Rate Estimation (805)	Christian	2081	Cloud Cover	I	E	MODIS	AM,PM	AL	2/day [d,n], 1/mo	5 km :: G	N/A :: Cloud
		2384	Level-1B Radiance, LIS	I	E	LIS	TRM	AL			N/A :: Sfc
		3600	Precipitation Rate	I	E	MDMR	PM1	AL		22 km :: Global	
		650	radar data	I	N	NEXRAD	in situ	BL			
		651	lightning observations (National Lightning Network)	I	N		in situ	BL			
		652	visible and IR images	I	N	VISSR	GOES	AL			
		3596	Precipitable Water	O	E	MDMR	PM1	AL		22 km :: Ocean	Column :: Trop
Atmospheric Water Vapor and Liquid Water (595)	TBD	3597	Precipitable Water	O	E	MDMR	PM1	AL	1 mo	1 dg :: Ocean	Column :: Trop
		3598	Cloud Liq. water Total Column	O	E	MDMR	PM1	AL		22 km :: Ocean	N/A :: Trop
		3599	Cloud Liq. water Total Column	O	E	MDMR	PM1	AL	1 mo	1 dg :: Ocean	N/A :: Trop
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		3602	Level-1B Radiance, MIMR	I	E	MDMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		3600	Precipitation Rate	O	E	MDMR	PM1	AL		22 km :: Global	N/A :: Sfc
		3601	Precipitation Index	O	E	MDMR	PM1	AL	1 mo	1 dg :: Global	N/A :: Sfc
Rain Rate (594)	TBD	3602	Level-1B Radiance, MIMR	I	E	MDMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		3609	Sea_Ice Age	O	E	MDMR	PM1	AL		22 km :: Ocean/Cryo	:: Sfc
Sea_Ice (581)	TBD	3610	Sea_Ice Age	O	E	MDMR	PM1	AL	1 mo	1 dg :: Ocean/Cryo	:: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Nos	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Sea Ice (581)	TBD	3611	Sea Ice Conc	O	E	MIMR	PM1	AL		22 km :: Ocean/Cryo	N/A :: Sfc
		3612	Sea Ice Conc	O	E	MIMR	PM1	AL	1 mo	1 dg :: Ocean/Cryo	N/A :: Sfc
		3613	Sea Ice Extent	O	E	MIMR	PM1	AL		22 km :: Ocean/Cryo	N/A :: Sfc
		3614	Sea Ice Extent	O	E	MIMR	PM1	AL	1 mo	1 dg :: Ocean/Cryo	N/A :: Sfc
Sea Surface Temperature (SST) (580)	TBD	3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		3603	Sea_sfc Temperature (SST)	O	E	MIMR	PM1	AL		60 km :: Ocean	N/A :: Sfc
		3604	Sea_sfc Temperature (SST)	O	E	MIMR	PM1	AL	1 mo	1 dg :: Ocean	N/A :: Sfc
		3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL			
		47	geophysical data	I	N		in situ (ship)	BL			
		52	wind climatology	I	N			BL			
		53	wind speed	I	N			BL			
		84	temperature profiles	I	N		in situ (buoy)	BL			
		746	sea surface temperature (SST)	I	N		in situ (radioonde)	BL			
Snow Cover (583)	TBD	749	humidity profiles	I	N		in situ (buoy)	BL			
		750	other level 2 data	I	N		in situ (radioonde)	BL			
		3607	Snow Cover	O	E	MIMR	PM1	AL		22 km :: Land	N/A :: Sfc
		3608	Snow Cover	O	E	MIMR	PM1	AL	1 mo	1 dg :: Land	N/A :: Sfc
		3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		349	snow cover	I	N	SSM/I	DMSP				
		3605	Soil Moisture	O	E	MIMR	PM1	AL		60 km :: Land	N/A :: Sfc
		3606	Soil Moisture	O	E	MIMR	PM1	AL	1 mo	1 dg :: Land	N/A :: Sfc
		3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		3594	Wind Stress, Sea_sfc	O	E	MIMR	PM1	AL		39 km :: Ocean	N/A :: Sfc
Wind Speed (579)	TBD	3595	Wind Stress, Sea_sfc	O	E	MIMR	PM1	AL	1 mo	1 dg :: Ocean	N/A :: Sfc
		3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		48	geophysical data	I	N		in situ (ship)	BL			
		1993	Aerosol Size-distribution	O	E	MISR	AM	AL	1/(5-16 day) [d]	15.4 km :: G	Column :: Atmos
		1994	Aerosol Size-distribution	O	E	MISR	AM	PL	1/(5-16 day)	1.9 km :: R	Column :: Atmos
		2298	Aerosol Optical Depth	O	E	MISR	AM	PL	1/(5-16 day) [d]	1.92 km :: R	Column :: Atmos
		2299	Aerosol Optical Depth	O	E	MISR	AM	AL	1/(5-16 day) [d]	15.4 km :: G	Column :: Atmos
		1017	Aerosol Mass Loading	I	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		1022	Aerosol Size-distribution (Radius-Dispersion)	I	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
Aerosol Retrieval over Land (909)	Diner	1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		2003	Albedo, Aerosol	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		2292	Aerosol Optical Depth	I	E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		2293	Aerosol Optical Depth	I	E	MODIS	AM,PM	AL	1/(2-16 day)	100 m :: L	Column :: Atmos
		2297	Aerosol Optical Depth, Spectral	I	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G	Column :: Atmos
		2386	Level-1B Radiance, MISR	I	E	EOSP	AERO,AM2	AL	1/day [d]	40 km :: G	Column :: Atmos
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	Column :: Atmos
		58	geophysical data	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		345	atmospheric optical depth	I	N	MISR simulator	in situ (aircraft)	BL			
		2334	Aerosol Phase Function, Asymmetric	O	E	MISR	AM	AL	1/(5-16 day) [d]	15.4 km :: G	Column :: Atmos
Aerosol Retrieval over Oceans (910)	Diner	2335	Aerosol Phase Function, Asymmetric	O	E	MISR	AM	PL	1/(5-16 day) [d]	1.9 km :: R	Column :: Atmos
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1680	Wind Velocity, Sea_sfc	I	E	STKSCAT	CHEM	AL	1/(2 day)	25 km :: Ocean	N/A :: Near_Sfc
		1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		2003	Albedo, Aerosol	I	E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		2292	Aerosol Optical Depth	I	E	MODIS	AM,PM	AL	1/(2-16 day)	100 m :: L	Column :: Atmos



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Aerosol Retrieval over Oceans (910)	Diner	2294	Aerosol Optical Depth, Spectral	I	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: Ocean	N/A :: Atmos
		2297	Aerosol Optical Depth	I	E	EOSP	AERO,AM2	AL	1/day [d]	40 km :: G	Column :: Atmos
		2386	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: TOA
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		58	geophysical data	I	N	MISR simulator	in situ (aircraft)	BL			
		345	atmospheric optical depth	I	N	photometer	in situ				
		552	O3 total column	I	N	TOMS	ADEOS				
		1432	Cloud Height, Top	O	E	MISR	AM	PL	1/(5-16 day) [d]	5 km :: G	N/A :: Trop
		1433	Cloud Height, Top	O	E	MISR	AM	PL	1/(5-16 day) [d]	500 m :: R	N/A :: Trop
		2010	Albedo, Planetary Spectral, TOA	O	E	MISR	AM	PL	1/(5-16 day) [d]	240 m :: R	N/A :: TOA
Cloud Reflectance (912)	Diner	2011	Albedo, Planetary Spectral, TOA	O	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: TOA
		2038	Cloud Reflectance, Bi-directional, (BRDF)	O	E	MISR	AM	PL	[variable] [d]	240 m :: R	N/A :: Trop
		2039	Cloud Reflectance, Bi-directional, (BRDF)	O	E	MISR	AM	PL	[variable] [d]	240 m :: G	N/A :: Trop
		3286	Eruption-Plume Height	O	E	MISR	AM	PL	[variable] [d]	500 m :: Land/L	N/A :: Plume_top
		1503	Cloud Field Structure	I	E	HIRIS	AM2	AL		:: L	
		1528	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		1530	Cloud Pressure, Top	I	E	BOSP	AERO,AM2	AL	1/day [d]	40 km :: G	30 mb :: Cloud
		1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		2247	Radiative Flux, SW, Up	I	E	CERES	TRM,AM,PM	AL	3/day [d]	1.25 dg :: G	N/A :: Sfc
		2386	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: TOA
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		2465	Cloud Temperature, Top	I	E	ASTER	AM1	AL	1/(16 day)	90 m :: L	N/A :: Cloud
		2467	Cloud Temperature, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		3698	Cloud Reflectance, Bi-directional, SW Broadband, (BRDF)	I	E	CERES	TRM,AM,PM	AL		10 dg [Angle] :: G	N/A :: Atmos
		58	geophysical data	I	N	MISR simulator	in situ (aircraft)	BL			
		346	surface BRDF's	I	N	Deering Parabola	in situ				
		347	radiance, multi-angle images	I	N	ASAS	in situ (aircraft)				
		2588	Pigment Conc, Phytoplankton	O	E	MISR	AM	PL	1/(1-2 day) [d]	240 m :: Ocean/R	N/A :: TOO
		2589	Pigment Conc, Phytoplankton	O	E	MISR	AM	AL	1/(1-2 day) [d]	1.92 km :: Ocean/G,R	N/A :: TOO
Pigment Concentration (913)	Diner	1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1680	Wind Velocity, Sea_sfc	I	E	STKSCAT	CHEM	AL	1/(2 day)	25 km :: Ocean	N/A :: Near Sfc
		1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		58	geophysical data	I	N	MISR simulator	in situ (aircraft)	BL			
		2021	Albedo, Spectral, Land_sfc	O	E	MISR	AM	PL	1/(5-16 day) [d]	240 m :: R	N/A :: Sfc
		2022	Albedo, Spectral, Land_sfc	O	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: Sfc
		2631	Land_sfc Reflectance, Bi-directional, (BRDF)	O	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: Sfc
		2632	Land_sfc Reflectance, Bi-directional, (BRDF)	O	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R	N/A :: Sfc
		2756	Vegetation Index, Normalized	O	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: Land	N/A :: Sfc
Retrieval of Land Surface Properties (911)	Diner	2757	Vegetation Index, Normalized	O	E	MISR	AM	PL	1/(5-16 day) [d]	240 m :: Land/R	N/A :: Sfc
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		2029	PAR, Absorbed, Non-vegetative, (APAR)	I	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2030	PAR, Absorbed, Vegetative, (APAR)	I	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2035	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	HIRIS	AM2	AL	1/(16 day)	30 m :: Land/L	N/A :: Sfc
		2386	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: TOA
		2387	Level-1B Radiance, MISR	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R,L	N/A :: TOA
		2429	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Retrieval of Land Surface Properties (911)	Diner	2430	Land_atc Reflectance, Directional	I	E	MODIS	AMPM	AL	1/day	0.5 km :: G	N/A :: Sfc
		2431	Land_atc Reflectance, Directional	I	E	MODIS	AMPM	AL	1/day	0.25 km :: G	N/A :: Sfc
		2741	Vegetation Cover	I	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		16	scene radiances	I	N	TM	LandSat	BL			
		33	scene radiances	I	N		SPOT	BL			
		58	geophysical data	I	N	MISR simulator	in situ (aircraft)	BL			
		346	surface BRDF's	I	N	Deering Parabola	in situ				
		347	radiance, multi-angle images	I	N	ASAS	in situ (aircraft)				
		553	O3 conc	I	N	SSBUV	Shuttle				
		554	O3 conc	I	N	SBUV/2	NOAA				
		555	sea ice data	I	N	SAR	in situ (aircraft)				
		1030	BrO(Br*81-O) Conc	O	E	MLS	MO	AL	1/mo. [z. mean]	high :: R/Canada	2.5 km :: 15-50 km
Atmospheric Constituent and Temperature Profiles (751)	Walters	1070	CH3Cl Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 40 km
		1107	ClO Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 70 km
		1124	CO Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 60 km
		1125	CO Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 60-100 km
		1165	H2CO Conc	O	E	MLS	MO	AL	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-50 km
		1171	H2O2 Conc	O	E	MLS	MO	AL	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 30-40 km
		1188	HCl(H <sub>2</sub> O*35) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 90 km
		1189	HCl(H <sub>2</sub> O*37) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 80 km
		1191	HCN Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 20-65 km
		1203	HN03 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 46 km
		1216	HO2 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 30-80 km
		1222	HOCl Conc	O	E	MLS	MO	AL	1/day	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 25-45 km
		1240	N2O Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 65 km
		1266	NO Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-120 km
		1274	NO2 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-60 km
		1299	O2 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [6.5] :: TPSE, 120 km
		1303	O2(NUI) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [6.5] :: 20-80 km
		1304	O3(OO*18) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-80 km
		1319	O3 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 110 km
		1326	O3O3(NUI.3) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
		1328	O3 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 70 km
		1337	O3(OO*17_O) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 25-45 km
		1338	O3(OO*18_O) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
		1339	O3(17*OOO) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-50 km
		1343	O3(41*OOO) Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
		1352	OCIO Conc	O	E	MLS	MO	AL	1/mo. [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 25 km
		1369	SO2 Conc	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 30 km
		1525	Pressure	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 70 km
		1609	Temperature Profile	O	E	MLS	MO	AL	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 120 km

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Atmospheric Constituent and Temperature Profiles (751)	Waters	1734	Wind Speed	O E	MLS	MO	AL	2/day [d.n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 60-110 km
		1838	H2O Conc	O E	MLS	MO	AL	2/day [d.n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 100 km
		1854	H2O (H2+17O) Conc	O E	MLS	MO	AL	2/day [d.n]		2.5 km [1.2] :: TPSE, 90 km
		1855	H2O (H2+18O) Conc	O E	MLS	MO	AL	2/day [d.n]		2.5 km [1.2] :: TPSE, 80 km
		1898	Cloud Liq. water Content	O E	MLS	MO	AL	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: Upper Trop
		3247	Magnetic Field Strength, DC	O E	MLS	MO	AL	2/day [d.n]	2.5 x 0.2 dg :: 82N-82S	2.5 km :: 80-100 km
		2388	Level-1B Radiance, MLS	I E	MLS	MO	AL	2/day [d.n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: Trop-150 km
		1017	Aerosol Mass Loading	O E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		1828	Humidity Profile	I E	AIRS	PM	AL	2/day [d.n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2003	Albedo, Aerosol	I E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
Aerosol Optical Depth (524)	Kaufman	2293	Aerosol Optical Depth, Spectral	I E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: Ocean	N/A :: Atmos
		2294	Aerosol Optical Depth, Spectral	O E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G	Column :: Atmos
		1334	O3 Total Burden	I E	MODIS	AM,PM	AL	1/day	5 km :: Land	N/A :: Atmos
		1874	Precipitable Water	I E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	Column :: Atmos
		2003	Albedo, Aerosol	I E	MODIS	AM,PM	PL	1/day, 1/mo	1.92 km :: R	Column :: Atmos
		2298	Aerosol Optical Depth	I E	MODIS	AM,PM	PL	1/day, 1/mo	1 km :: G	N/A :: N/A
		2335	Aerosol Phase Function, Asymmetric	I E	MODIS	AM,PM	PL	1/(5-16 day) [d]	1 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I E	MODIS	AM,PM	AL	1/day	0.5 km :: Land/R	N/A :: Sfc
		2750	Vegetation Index	I E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo		
Aerosol Single Scattering Albedo (527)	Turre, Kaufman	185	aerosol radiation	I N		in situ				
		2003	Albedo, Aerosol	O E	MODIS	AM,PM	PL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		2001	Albedo, Spectral, TOA	I E	MODIS	AM,PM	PL	1/(3-8 day)	1 km :: Land/R	N/A :: TOA
		2335	Aerosol Phase Function, Asymmetric	I E	MODIS	AM,PM	PL	1/(5-16 day) [d]	1.9 km :: R	Column :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		185	aerosol radiation	I N		in situ				
		1022	Aerosol Size-distribution (Radius-Dispersion)	O E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		2293	Aerosol Optical Depth, Spectral	I E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: Land	N/A :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Aerosol Size Distribution (525)	Turre, King	2340	Level-1B Radiance, MODIS>3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		185	aerosol radiation	I N		in situ				
		1022	Aerosol Size-distribution (Radius-Dispersion)	O E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
		2293	Aerosol Optical Depth, Spectral	I E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: Land	N/A :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		185	aerosol radiation	I N		in situ				
		2295	Aerosol Angstrom Exponent	O E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: Atmos
		2296	Aerosol Angstrom Exponent	O E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Angstrom Exponent (554)	Gordon	23	O3 data	I N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I N			BL			
		51	surface wind speed	I N		in situ	PL			
		123	incident spectral irradiance	I N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Angstrom Exponent (554)	Gordon	125	upwelling spectral radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: S/c
		2031	Ocean Water Attenuation Coef, PAR	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean-L/L	N/A :: TOO
		2032	Ocean Water Attenuation Coef, PAR	O	E	MODIS	AM,PM	PL	1/day, 1/wk	20 km :: Ocean-L	N/A :: TOO
		3206	Ocean Water Attenuation Coef@520nm	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean	N/A :: TOO
		3207	Ocean Water Attenuation Coef@520nm	O	E	MODIS	AM,PM	PL	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
Attenuation of PAR (552)	Clark, Gordon	2339	Level-1B Radiance, MODIS-Glun	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		3696	Land_4fc BRDF, AM-PM Asymmetry	O	E	MODIS	AM,PM	PL	1 day	250 m, 1 km :: Land	N/A :: S/c
		3697	Land_4fc BRDF, AM-PM	O	E	MODIS	AM,PM	PL	1 day	250 m, 1 km :: Land	N/A :: S/c
		2339	Level-1B Radiance, MODIS-Glun	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS-Glun	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2555	Phytoplankton Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
		2556	Coccolith Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
		2557	Coccolith Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		2558	Phytoplankton Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		2559	Ocean Water Backscatter Coef, Total	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
		2560	Ocean Water Backscatter Coef, Total	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		3216	Particulate Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day	1 km :: Ocean	N/A :: TOO
Backscattering Coefficients (512)	Gordon, Parlow	3217	Particulate Backscatter Coef	O	E	MODIS	AM,PM	PL	1/day	20 km :: Ocean	N/A :: TOO
		2339	Level-1B Radiance, MODIS-Glun	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R/L	N/A :: S/c
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: S/c
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	SeaWiFS	BL			
		42	radiance	I	N		in situ	BL			
		101	geophysical data	I	N		JGOFS	BL			
		2424	Land_4fc Reflectance, Bi-directional, (BRDF)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: S/c
		2425	Land_4fc Reflectance, Bi-directional, (BRDF)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: S/c
		2429	Land_4fc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: S/c
		2430	Land_4fc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: S/c
		2431	Land_4fc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: S/c
		2434	Land_4fc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: R	N/A :: S/c
Bidirectional Reflectance (BRDF) (517)	Muller, Strahler, Tanne	112	sky radiance data (SBRDF)	I	N			BL			
		113	digital elevation model	I	N		SPOT	BL			
		114	digital elevation model	I	N		ERS-1	BL			

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Bidirectional Reflectance (BRDF) (517)	Muller, Strahler, Tare	115	digital elevation model	I	N		JERS-1	BL			
Canopy Carbon and Water Fluxes (521)	Running	847	digital elevation model	I	N			AL		various :: Land	N/A :: Sfc
		2680	Vegetation Index, Leaf Area, (LAI)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	pixel_size :: Land/G/R/L	N/A :: N/A
		2703	Vegetation Productivity, Primary	O	E	MODIS	AM,PM	PL	1/wk, 1/mo, 1/yr	1 km :: Land/G/R	N/A :: N/A
		2723	Vegetation Stress	O	E	MODIS	AM,PM	PL	1/day, 1/wk	pixel_size :: Land/G/R/L	N/A :: N/A
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		199	BRDFs	I	N		LTER				
		200	climate data	I	N		in situ	AL		:: Land/R	
		753	biome discrimination	I	N		LTER				
		2569	Chlorophyll_a Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean-III/L	N/A :: TOO
		2570	Chlorophyll_a Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean-III/G/R	N/A :: TOO
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Case-II Waters Chlorophyll-A Concentration (548)	Carder	2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R/L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		33	scene radiances	I	N		SPOT	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		152	chlorophyll, phycoerythrin, and dissolved organic matter fluxes	I	N	AOL	in situ (aircraft)	BL	each pass	10 m :: Ocean/R	:: Sfc
		153	water leaving radiances	I	N		in situ	BL	each pass	10 m :: Ocean/R	:: Sfc
		192	optical and constituent data sets	I	N						
		193	fluorescence line heights (FLH)	I	N	FL/CASI		BL			
		194	calibration/verification optical data	I	N		in situ				
		348	radiance	I	N	OCIS	ADEOS				
		592	ocean color data	I	N	CZCS	Nimbus-7			:: Ocean/Coastal	
		2566	Chlorophyll_a Conc (via Fluorescence)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean/R/L	N/A :: TOO
Chlorophyll Concentration via Fluorescence (916)	Abbott	2567	Chlorophyll_a Conc (via Fluorescence)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
		2266	PAR, Sfc (IPAR)	I	E	MODIS	AM,PM	AL	1/day [d]	1 km :: Ocean/L	N/A :: Sfc
		2267	PAR, Sfc (IPAR)	I	E	MODIS	AM,PM	AL	1/day [d]	1 km :: Ocean	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chlorophyll Concentration via Fluorescence (916)	Abbott	132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		141	radiance-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		143	fluorescence line magnitude @685 um	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		144	chlorophyll fluorescence (mid-Atlantic Bight)	I	N		in situ (ship)	AL		:: Ocean/L	:: Sfc
		3211	Chlorophyll Fluorescence Efficiency	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
		3212	Chlorophyll Fluorescence Efficiency	O	E	MODIS	AM,PM	PL	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2571	Chlorophyll-a Conc	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean-L	N/A :: TOO
Chlorophyll Fluorescence Efficiency (914)	Abbott	2572	Chlorophyll-a Conc	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean-L,G,R	N/A :: TOO
		2575	Chlorophyll Fluorescence Line Height	I	E	MODIS	AM,PM	AL	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
		2576	Chlorophyll Fluorescence Line Height	I	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N			PL			
		123	incident spectral irradiance	I	N		in situ	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		141	radiance-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		143	fluorescence line magnitude @685 um	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		144	chlorophyll fluorescence (mid-Atlantic Bight)	I	N		in situ (ship)	AL		:: Ocean/L	:: Sfc
Chlorophyll Fluorescence Line Curvature (516)	Hoge	2573	Chlorophyll Fluorescence Line Curv	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Ocean/R	N/A :: TOO
		2574	Chlorophyll Fluorescence Line Curv	O	E	MODIS	AM,PM	AL	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
		2593	Pigment Conc [via Spectral Curv]	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean/R	N/A :: TOO
		2594	Pigment Conc [via Spectral Curv]	O	E	MODIS	AM,PM	PL	1/day, 1/wk	20 km :: Ocean/R	N/A :: TOO
		3317	Organic Matter Fluorescence Efficiency, Colored Dissolved [CDOM]	O	E	MODIS	AM,PM	AL	1 day, wk, mo	20 km :: Ocean/G,R	N/A :: TOO
		3318	Organic Matter Fluorescence Efficiency, Colored Dissolved [CDOM]	O	E	MODIS	AM,PM	AL	1 day, wk, mo	1 km :: Ocean/R,L	N/A :: TOO
		3319	Pigment Conc, Phycobillin [Phycocyanin, etc.]	O	E	MODIS	AM,PM	PL	1 day, wk, mo	20 km :: Ocean/G,R	N/A :: TOO
		3320	Pigment Conc, Phycobillin [Phycocyanin, etc.]	O	E	MODIS	AM,PM	PL	1 day, wk, mo	1 km :: Ocean/R,L	N/A :: TOO
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2575	Chlorophyll Fluorescence Line Height	O	E	MODIS	AM,PM	AL	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chlorophyll Fluorescence Line Height (546)	Abbott, Evans et al.	2576	Chlorophyll Fluorescence Line Height	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N			PL			
		123	incident spectral irradiance	I	N		in situ			:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		143	fluorescence line magnitude @0.85 um	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		144	chlorophyll fluorescence (mid-Atlantic Blight)	I	N		in situ (ship)	AL		:: Ocean/L	:: Sfc
		2571	Chlorophyll a Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean-I/L	N/A :: TOO
Chlorophyll-A Pigment Concentration (547)	Clark	2572	Chlorophyll a Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean-I/G,R	N/A :: TOO
		1680	Wind Velocity, Sea_sfc	I	E	STIKSCAT	CHEM	AL	1/2 day	25 km :: Ocean	N/A :: Near_Sfc
		1735	Wind Speed, Along-track	I	E	ALT	ALT	AL		7 km :: Ocean	N/A :: Sfc
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		3594	Wind Stress, Sea_sfc	I	E	MDMR	PM1	AL		39 km :: Ocean	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N			PL			
		123	incident spectral irradiance	I	N		in situ			:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phycochlorophylls	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		134	humic and fulvic acids	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chlorophyll-A Pigment Concentration (547)	Clart	136	deritus absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiance-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		142	chlorophyll concentration and others (mid-Atlantic Blight)	I	N		in situ (ship)	AL		:: Ocean/L	:: Site
Cloud Area and Perimeter (532)	Kaufman	2068	Cloud Field Area	O	E	MODIS	AM,PM	PL	1/mo	1 dg :: G	N/A :: Sfc
		2092	Cloud Field Perimeter	O	E	MODIS	AM,PM	PL	1/mo	1 dg :: G	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		1780	Cloud Drop Size(Effective Radius)	O	E	MODIS	AM,PM	AL	1/day	5 km :: G	N/A :: Cloud
Cloud Droplet Effective Radius & Optical Thickness (536)	King	1781	Cloud Drop Size(Effective Radius)	O	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2311	Cloud Optical Depth	O	E	MODIS	AM,PM	AL	1/day (d)	5 km :: G	N/A :: Cloud
		2312	Cloud Optical Depth	O	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1764	Cloud Drop Phase	I	E	MODIS	AM,PM	AL	1/day	5 km :: G	N/A :: Cloud
		1765	Cloud Drop Phase	I	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2015	Albedo, Land_sfc	I	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
		2016	Albedo, Land_sfc	I	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		121	cloud optical thickness	I	N		in situ (aircraft)	AL		:: Local	:: Cloud
		2126	Cloud Emissivity	O	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		2127	Cloud Emissivity	O	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day (d,n)	50 km :: G	Column :: Atmos
		1529	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day (d,n)	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day (d,n)	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2282	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	.25 km :: G	N/A :: Sfc
Cloud Fractional Area (531)	King, Kaufman	2283	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc
		2284	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		44	model output/analysis	I	N		AM,PM	AL	1/day		
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		122	cloud liquid/water content	I	N		in situ (aircraft)	BL		:: Local	:: Cloud
		744	humidity profiles	I	N		in situ (radiosonde)	BL			
		745	column water vapor	I	N		in situ (radiosonde)	BL			
		2081	Cloud Cover	O	E	MODIS	AM,PM	AL	2/day (d,n), 1/mo	5 km :: G	N/A :: Cloud
		2082	Cloud Cover	O	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		75	land surface temperature	I	N		AM,PM	AL	1/day		
		2094	Cloud JPDPF	O	E	MODIS	AM,PM	PL	1/day, 1/mo	1 dg :: G	N/A :: N/A
		1529	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cloud Joint Probability Density Function (514)	King, Menzel	1781	Cloud Drop Size (Effective Radius)	I	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2116	Cloud Emisivity	I	E	MODIS	AM, PM	PL			N/A :: Cloud
		2312	Cloud Optical Depth	I	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		2466	Cloud Temperature, Top	I	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1528	Cloud Pressure, Top	O	E	MODIS	AM, PM	AL	2/day	5 km :: G	N/A :: Cloud
		1529	Cloud Pressure, Top	O	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2466	Cloud Temperature, Top	O	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2467	Cloud Temperature, Top	O	E	MODIS	AM, PM	AL	2/day	5 km :: G	N/A :: Cloud
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [dLn]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
Cloud Top Pressure and Temperature (534)	Menzel	1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [dLn]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		44	model output/analysis	I	N			BL			
		1764	Cloud Drop Phase	O	E	MODIS	AM, PM	AL	1/day	5 km :: G	N/A :: Cloud
		1765	Cloud Drop Phase	O	E	MODIS	AM, PM	AL	1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		2577	Coccolith Conc, Detached	O	E	MODIS	AM, PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: TOO
		2578	Coccolith Conc, Detached	O	E	MODIS	AM, PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: TOO
Detached Coccolith Concentration	Gordon, Clark	2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM, PM	AL	1/day	1 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM, PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM, PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phycochlorophylls	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		136	detritus absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	:: Sfc
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		148	detached coccolith concentration	I	N		in situ (ship)	AL		:: Ocean/L	:: Sfc

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Diffuse Attenuation at 490 nm (551)	Gordon, Clark	3199	Ocean Water Attenuation Coef@490nm	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean-I/R,L	N/A :: TOO
		3200	Ocean Water Attenuation Coef@490nm	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean-I/R,L	N/A :: TOO
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			N/A :: Sfc
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phytoplankton pigments	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		136	detritus absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
Directional Reflectance (518)	Strahler, Muller et al	138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		145	PAR (400 - 700 nm)	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		2429	Land_sfc Reflectance, Directional	O	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc
		2430	Land_sfc Reflectance, Directional	O	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: Sfc
		2431	Land_sfc Reflectance, Directional	O	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: Sfc
		2434	Land_sfc Reflectance, Directional	O	E	MODIS	AM,PM	AL	1/day	1 km :: R	N/A :: Sfc
		2088	Cloud Cover	I	E	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
Dissolved Organic Matter (515)	Carder	2338	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2828	Topographic Elevation, Land sfc, (DEM)	I	E	ASTER	AM1	AL	1/mision	15 m :: Land/R,L	30 m :: Sfc
		2580	Organic Matter Conc, Dissolved	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		2581	Organic Matter Conc, Dissolved	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		3662	Organic Matter Degradation, Product	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		3663	Absorption Coef@415nm (DOM+De	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		3663	Organic Matter Degradation, Product	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		3663	Absorption Coef@415nm (DOM+De	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [dnp]	50 km :: G	Column :: Atmos
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1680	Wind Velocity, Sea_sfc	I	E	STIKSCAT	CHEM	AL	1/2 day	25 km :: Ocean	N/A :: Near_Sfc
		1735	Wind Speed, Along-track	I	E	ALT	ALT	AL		7 km :: Ocean	N/A :: Sfc
		2338	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Dissolved Organic Matter (515)	Carder	2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		3594	Wind Stress, Sea_sfc	I	E	MODIS	PM1	AL		39 km :: Ocean	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			RL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phycochlorophylls	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		134	humic and fulvic acids	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		136	derivative absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		192	optical and constituent data sets	I	N		in situ				
Dissolved Organic Matter Concentration (559)	Parslow	194	calibration/verification optical data	I	N		in situ				
		2582	Organic Matter Conc, Dissolved	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean [Southern]	N/A :: TOO
		2583	Organic Matter Conc, Dissolved	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean [Southern]R/L	N/A :: TOO
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		32	ocean color data	I	N	SeaWiFS	Seastar	BL			
		42	radiance	I	N		in situ	BL			
		101	geophysical data	I	N	JGOFS		BL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phycochlorophylls	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Dissolved Organic Matter Concentration (559)	Parslow	132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		134	humic and fulvic acids	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		136	detritus absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	:: Sfc
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiance-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		2404	Land_sfc Radiance-Correction, Topographic	O	E	MODIS	AM,PM	AL	1/day	1 km :: Land/R	N/A :: Sfc
		2405	Land_sfc Radiance-Correction, Topographic	O	E	MODIS	AM,PM	AL	1/day	10 km :: Land	N/A :: Sfc
		2338	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Geospatial Corrections (808)	Muller	2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2828	Topographic Elevation, Land_sfc, (DEM)	I	E	ASTER	AM1	AL	1/mission	15 m :: Land/R,L	30 m :: Sfc
		2846	Topographic Elevation, Land_sfc	I	E	MISR	AM	PL	1/mission	500 m :: Land	N/A :: Sfc
		112	sky radiance data (SBRDF)	I	N			BL			
		113	digital elevation model	I	N		SPOT	BL			
		114	digital elevation model	I	N		ERS-1	BL			
		115	digital elevation model	I	N		JERS-1	BL			
		847	digital elevation model	I	N			AL		various :: Land	N/A :: Sfc
		1688	Wind Velocity, Sea_sfc Glint-Pattern	O	E	MODIS	AM,PM	PL	1/orbit [d]	1 km :: Ocean/R	N/A :: Sfc
		2254	Glint Field	O	E	MODIS	AM,PM	PL	1/orbit [d]	1 km :: Ocean/R	N/A :: Sfc
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		51	surface wind speed	I	N		in situ	PL			
		2001	Albedo, Spectral, TOA	O	E	MODIS	AM,PM	AL	1/(3-8 day)	1 km :: Land/R	N/A :: TOA
Glint Field (511)	Gordon	3665	Albedo, Spectral, Land_sfc	O	E	MODIS	AM,PM	PL	1/day	1 km :: Land/R	N/A :: Sfc
		3666	Albedo, Total [SW], Land_sfc	O	E	MODIS	AM,PM	PL	1/day	1 km :: Land/R	N/A :: Sfc
		3667	Albedo, Total [SW], TOA	O	E	MODIS	AM,PM	PL	1/day	1 km :: Land/R	N/A :: TOA
		2424	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
		2425	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
		2429	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc
		2430	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: Sfc
		2431	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: Sfc
		2434	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: R	N/A :: Sfc
		2631	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MISR	AM	AL	1/(5-16 day) [d]	1.92 km :: G	N/A :: Sfc
		2632	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MISR	AM	AL	1/(5-16 day) [d]	240 m :: R	N/A :: Sfc
		112	sky radiance data (SBRDF)	I	N			BL			
		2266	PAR, Sfc (IPAR)	O	E	MODIS	AM,PM	AL	1/day [d]	1 km :: Ocean/L	N/A :: Sfc
		2267	PAR, Sfc (IPAR)	O	E	MODIS	AM,PM	AL	1/day [d]	1 km :: Ocean	N/A :: Sfc
Incident PAR (558)	Gordon, Tanne	2268	PAR, Incident, (IPAR)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Atmos
		1680	Wind Velocity, Sea_sfc	I	E	STIKSCAT	CIEM	AL	1/(2 day)	25 km :: Ocean	N/A :: Near_Sfc
		1735	Wind Speed, Along-track	I	E	ALT	ALT	AL		7 km :: Ocean	N/A :: Sfc
		2295	Aerosol Angstrom Exponent	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Atmos
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2344	Aerosol Radiance	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/G,R,L	N/A :: Atmos

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Incident PAR (558)	Gordon, Tanre	3594	Wind Stress, Sea_sfc	I	E	MODIS	PM1	AL		39 km :: Ocean	N/A :: Sfc
		13	cloud data	I	N		in situ	BL			
		25	radiance	I	N	AVHRR-GAC	NOAA	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
Land Cover and Land Cover Change (520)	Strahler, Huete et al.	2669	Land_Cover Type	O	E	MODIS	AM,PM	AL	1/mo, 1/season	1 km :: Land	N/A :: Sfc
		2670	Land_Cover Type	O	E	MODIS	AM,PM	AL	1/mo, 1/season	5 km :: Land	N/A :: Sfc
		2671	Land_Cover Type-Change	O	E	MODIS	AM,PM	AL	1/season	1 km :: Land	N/A :: Sfc
		2672	Land_Cover Type-Change	O	E	MODIS	AM,PM	AL	1/season	5 km :: Land	N/A :: Sfc
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2379	Level-2 Radiance, Land_leaving	I	E	MODIS	AM,PM	AL	1/day	1 km :: Land/R	N/A :: Sfc
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2429	Land_sfc Reflectance, Directional	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc
		2484	Land_sfc Temperature	I	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2653	Vegetation Chlorophyll Conc	I	E	HIRIS	AM2	AL	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
		2751	Vegetation Index	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2828	Topographic Elevation, Land_sfc, (DEM4)	I	E	ASTER	AM1	AL	1/mission	15 m :: Land/R,L	30 m :: Sfc
		3021	Snow Cover	I	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2379	Level-2 Radiance, Land_leaving	O	E	MODIS	AM,PM	AL	1/day	1 km :: Land/R	N/A :: Sfc
		2380	Level-2 Radiance, Land_leaving	O	E	MODIS	AM,PM	AL	1/day, 1/mo	10 km :: Land	N/A :: Sfc
		2381	Level-2 Radiance, Land_leaving	O	E	MODIS	AM,PM	AL	1/day	0.5 km :: Land/R	N/A :: Sfc
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
Lifted Index (528)	Menzel	1559	Stability (Lifted Index), Atmospheric	O	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		1560	Stability (Lifted Index), Atmospheric	O	E	MODIS	AM,PM	AL	2/day, 1/mo	0.5 dg :: G	N/A :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [dun]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [dun]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		44	model output/analysis	I	N			BL			
Organic Matter & Suspended Solids Concentration (561)	Clark	75	land surface temperature	I	N			BL			
		2608	Organic Matter Conc, Particulate	O	E	MODIS	AM,PM	PL	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
		3085	Suspended-Solids Conc, Ocean Water	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
		3086	Suspended-Solids Conc, Ocean Water	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		3664	Organic Matter Conc, Particulate	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean-1/L	N/A :: TOO
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		2337	Vegetation Index, Polarization	O	E	MODIS	AM,PM	PL	1/day	pixel_size :: Land	N/A :: Sfc
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
Photosynthesis: MODIS and POLDER Polarization (519)	Vanderbilt	2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		7001	Level-1B Radiance, POLDER	I	E	POLDER	EPDP				
		7002	Level-1B Polarization, POLDER	I	E	POLDER	EPDP				
		2330	PAR	O	E	MODIS	AM,PM	PL	1/day	N/A :: G	N/A :: Atmos
Photosynthetically Active Radiation (530)	Essias										

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Pigment Concentration (557)	Gordon, Clark	2591	Pigment Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: TOO
		2592	Pigment Conc	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
		1332	O3 Total Burden	I	E	AIRS	PM	PL	2/day [d,n]	50 km :: G	N/A :: Atmos
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1680	Wind Velocity, Sea, etc	I	E	STKSCAT	CHIM	AL	1/(2 day)	25 km :: Ocean	N/A :: Near_Sfc
		1735	Wind Speed, Along-track	I	E	ALT	ALT	AL		7 km :: Ocean	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
Sea Ice (544)	Salomonson	3153	Sea Ice Max Extent	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	10 km :: Ocean/Cryo	N/A :: Sfc
		3154	Sea Ice Max Extent	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/Cryo,R	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL			
		2527	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: Sfc
		2528	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		2529	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	4 km :: Ocean/R,L	N/A :: Sfc
		2530	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	4 km :: Ocean/R,L	N/A :: Sfc
		2531	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
Sea Surface Temperatures (543)	Brown et al.	2532	Sea ice Temperature (SST)	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	50 km :: Ocean	N/A :: Sfc
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		47	geophysical data	I	N		in situ (ship)	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		53	wind speed	I	N		in situ (buoy)	BL			
		147	IR surface brightness temperatures	I	N		in situ (ship)	AL		1 m :: Ocean/L	:: Sfc
		191	radiance for SST	I	N	ATSR		PL			
		746	sea surface temperature (SST)	I	N		in situ (buoy)	BL			
Single Scattering Aerosol Radiance (555)	Gordon	2344	Aerosol Radiance	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/G,R,L	N/A :: Atmos
		2345	Aerosol Radiance	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R,L	N/A :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigment-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::

# Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (h)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Single Scattering Aerosol Radiance (555)	Gordon	139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	
		141	radiance:0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		3020	Snow Cover	O	E	MODIS	AM,PM	AL	1/day, 1/wk	10 km :: Land	N/A :: Sfc
		3021	Snow Cover	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		184	radiation budget components in snow covered regions	I	N						
		201	snow reflectance	I	N			BL			
		202	ground radiances	I	N		in situ	BL			
		203	ground radiances	I	N	MMR	in situ				
Spectral Surface Reflectance (540)	Kaufman, Tetre	2015	Albedo, Land_sfc	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
		2016	Albedo, Land_sfc	O	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
		1333	O3 Total Burden	I	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
		1875	Precipitable Water	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2750	Vegetation Index	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	0.5 km :: Land/R	N/A :: Sfc
		186	directional radiance, spectral irradiance, etc.	I	N		in situ				
		2602	Ocean Productivity, Primary, Near_sfc (via Fluorescence)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: Ocean-I/R,L	N/A :: TOO
Surface Primary Productivity via Fluorescence (553)	Esaia, Abbott	2603	Ocean Productivity, Primary, Near_sfc (via Fluorescence)	O	E	MODIS	AM,PM	PL	1/day, 1/wk	4 km :: Ocean-I/G,R	N/A :: TOO
		2606	Ocean Productivity, Primary	O	E	MODIS	AM,PM	AL	1/wk, 1/mo, 1/yr	20 km :: Ocean/G,R	N/A :: TOO
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2416	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	I	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		126	water-leaving radiances	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m ::
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)	AL		:: Ocean/L	1 m :: 0-150 m
		130	phycochlorophylls	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		131	spectral reflectance factor	I	N		in situ (ship)	AL		:: Ocean/L	1 m :: 0-150 m
		132	phytoplankton pigment: chlorophyll-a and phaeopigments-a	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		133	phytoplankton pigment	I	N		in situ (ship)	AL		:: Ocean/L	5 m ::
		135	particle absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		136	debris absorption coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		137	backscattering coefficient	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		138	total dissolved organic carbon	I	N		in situ (ship)	AL		:: Ocean/L	1 m ::
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)	AL		:: Ocean/L	



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Surface Primary Productivity via Fluorescence (553)	Esaies, Abbott	140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL		:: Ocean/L	:: Sfc
		141	radiance-0.41 to 0.75 um	I	N		in situ (aircraft)	AL		:: Ocean/L	:: Sfc
		145	PAR (400 - 700 nm)	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		146	primary productivity (14-C)	I	N		in situ (ship, buoy)	AL		:: Ocean/L	:: Sfc
		840	chlorophyll specific absorption	I	N		in situ (ship/buoy)	BL		:: Ocean/R,L	
		841	fluorescence efficiency	I	N		in situ (ship/buoy)	BL		:: Ocean/R,L	
		842	primary productivity vs irradiance data	I	N		in situ (ship)	BL		:: Ocean/R,L	
		843	mixed layer depth	I	N		in situ (ship/buoy)	BL		:: Ocean/R,L	
		844	ocean density profiles	I	N		in situ (ship/buoy)	BL		:: Ocean/R,L	
		845	turbulence dissipation rate	I	N		in situ (ship/buoy)	BL		:: Ocean/R,L	
Surface Roughness (807)	Tanne, Muller	1556	Land_sfc Roughness	O	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
		1557	Land_sfc Roughness	O	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
		2424	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MODIS	AM,PM	PL	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
		2425	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E	MODIS	AM,PM	PL	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
		2828	Topographic Elevation, Land_sfc, (DEM)	I	E	ASTER	AM1	AL	1/mission	15 m :: Land/R,L	30 m :: Sfc
		2484	Land_sfc Temperature	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2485	Land_sfc Temperature	O	E	MODIS	AM,PM	AL	1/day, 1/wk	10 km :: Land	N/A :: Sfc
		3323	Land_sfc Emissivity	O	E	MODIS	AM,PM	PL	1 day, 1 wk	1 km :: Land/R	N/A :: Sfc
		3324	Land_sfc Emissivity	O	E	MODIS	AM,PM	PL	1 day, 1 wk	10 km :: Land	N/A :: Sfc
		2340	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Surface Temperature (538)	Wan	2350	Level-1B Radiance, AMSU-A	I	E	AIRS(AMSU-A)	PM	AL	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
		2352	Level-1B Radiance, MHS	I	E	AIRS(MHS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2471	Fire Temperature	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2663	Fire Count	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2664	Fire Count	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2665	Fire Extent	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
		2666	Fire Extent	O	E	MODIS	AM,PM	AL	1/day, 1/wk	1 dg :: Land	N/A :: Sfc
		2711	Fire Class	O	E	MODIS	AM,PM	AL	1/day, 1/wk	10 km :: Land	N/A :: Sfc
		198	thermal data	I	N		in situ (aircraft)				
		1333	O3 Total Burden	O	E	MODIS	AM,PM	AL	2/day, 1/day	5 km :: G	Column :: Atmos
Total Column Ozone (523)	Menzel	1334	O3 Total Burden	O	E	MODIS	AM,PM	AL	1/day, 1/mo	0.5 dg :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		44	model output/analysis	I	N			BL			
		1875	Precipitable Water	O	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
Total Precipitable Water (530)	Menzel	44	model output/analysis	I	N			BL			
		1875	Precipitable Water	O	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		75	land surface temperature	I	N			BL			
		2047	Soil Brightness Index	O	E	MODIS	AM,PM	AL	1/mo	1 km :: Land/R	N/A :: Sfc
		2095	Soil Color Index	O	E	MODIS	AM,PM	AL	1/mo	1 km :: Land/R	N/A :: Sfc
		2659	Vegetation Growing Season Duration	O	E	MODIS	AM,PM	PL	1/yr	1 km :: Land	N/A :: Sfc
Vegetation and Soil Indices (537)	Justice, Huete	2660	Vegetation Growing Season Duration	O	E	MODIS	AM,PM	PL	1/yr	10 km :: Land	N/A :: Sfc
		2724	Vegetation Index, Soil&BRDF Adjusted	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2748	Vegetation Index, Soil Adjusted	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2749	Vegetation Index	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	10 km :: Land	N/A :: Sfc
		2047	Soil Brightness Index	O	E	MODIS	AM,PM	AL	1/mo	1 km :: Land/R	N/A :: Sfc
		2095	Soil Color Index	O	E	MODIS	AM,PM	AL	1/mo	1 km :: Land/R	N/A :: Sfc
		2659	Vegetation Growing Season Duration	O	E	MODIS	AM,PM	PL	1/yr	1 km :: Land	N/A :: Sfc
		2660	Vegetation Growing Season Duration	O	E	MODIS	AM,PM	PL	1/yr	10 km :: Land	N/A :: Sfc
		2724	Vegetation Index, Soil&BRDF Adjusted	O	E	MODIS	AM,PM	PL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2748	Vegetation Index, Soil Adjusted	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2749	Vegetation Index	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	10 km :: Land	N/A :: Sfc



Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Vegetation and Soil Indices (537)	Justice, Huete	2750	Vegetation Index	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	0.5 km :: Land/R	N/A :: Sfc
		2751	Vegetation Index	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
		2338	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		197	ground data	I	N	transmissionometer	in situ				
		2416	Level-2 Radiance, Water-leaving	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
		2417	Level-2 Radiance, Water-leaving	O	E	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		2254	Glint Field	I	E	MODIS	AM,PM	PL	1/orbit (d)	1 km :: Ocean/R	N/A :: Sfc
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
Water Leaving Radiance (545)	Gordon, et al.	50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N			PL			
		123	incident spectral irradiance	I	N		in situ				
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)				
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)				
		126	water-leaving radiances	I	N		in situ (ship, buoy)				
		127	spectral beam attenuation coefficient	I	N		in situ (ship, buoy)				
		128	diffuse attenuation coefficient-downwelling radiation	I	N		in situ (ship, buoy)				
		129	diffuse attenuation coefficient-upwelling radiation	I	N		in situ (ship, buoy)				
		130	phycochlorophylls	I	N		in situ (ship)				
		131	spectral reflectance factor	I	N		in situ (ship)				
		132	phytoplankton pigment: chlorophyll-a and phaeococyanin-a	I	N		in situ (ship)				
		133	phytoplankton pigment	I	N		in situ (ship)				
		134	humic and fulvic acids	I	N		in situ (ship)				
		135	particle absorption coefficient	I	N		in situ (ship)				
		136	detritus absorption coefficient	I	N		in situ (ship)				
		137	backscattering coefficient	I	N		in situ (ship)				
		138	total dissolved organic carbon	I	N		in situ (ship)				
		139	spectral solar atmospheric transmission	I	N		in situ (ship, station)				
		140	fluorescence and other data	I	N	AOL	in situ (aircraft)	BL			
		141	radiances-0.41 to 0.75 um	I	N		in situ (aircraft)	AL			
Water Vapor (513)	Kaufman, Tarre	1874	Precipitable Water	O	E	MODIS	AM,PM	AL	1/day	5 km :: Land	N/A :: Atmos
		3321	Precipitable Water	O	E	MODIS	AM,PM	AL	1 day, mo	1 km :: Land	N/A :: Atmos
		3322	Precipitable Water	O	E	MODIS	AM,PM	AL	1 day, mo	1 dg :: Land	N/A :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day (d,n)	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		2282	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	25 km :: G	N/A :: Sfc
		2283	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: Sfc
		2284	Cloud Masking-shadowing	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: Sfc
		2339	Level-1B Radiance, MODIS-3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2481	Land sfc Temperature, Skin	I	E	AIRS	PM	AL	2/day (d,n)	50 km :: Land	N/A :: Sfc
		2523	Sea sfc Temperature (SST), Skin	I	E	AIRS	PM	PL	2/day (d,n)	50 km :: Ocean	N/A :: Sfc
CH4 Column Abundance (903)	Drummond	44	model output/analysis	I	N			BL			
		75	land surface temperature	I	N			BL			
		1096	CH4 Total Burden	O	E	MOPITT	AM1	AL	1/(12 s) (?)	120 km :: G	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day (d,n)	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day (d,n)	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2086	Cloud Cover	I	E	CERES	TRM,AM,PM	AL	6/day (d,n)	25 km :: G	N/A :: Atmos

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
CH4 Column Abundance (903)	Drummond	2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2394	Level-1B Radiance, MOPITT	I	E	MOPITT	AM1	AL	1/(0.4 s) [?]	22 km :: G	Column :: Atmos
		44	model output/analysis	I	N			BL			
CO Column Abundance (902)	Drummond	1137	CO Total Burden	O	E	MOPITT	AM1	AL	1/(4 s) [?]	66 km :: G [dy]	Column :: Atmos
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2086	Cloud Cover	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2394	Level-1B Radiance, MOPITT	I	E	MOPITT	AM1	AL	1/(0.4 s) [?]	22 km :: G	Column :: Atmos
		44	model output/analysis	I	N			BL			
		333	CO observations	I	N		in situ (ground)				
		334	CO observations	I	N		in situ (aircraft)				
		1126	CO Conc	O	E	MOPITT	AM1	AL	1/(0.4 s) [?]	22 km :: G	3-4 km :: 0-15 km
		1588	Temperature Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	1, 2 km :: Atmos
		1828	Humidity Profile	I	E	AIRS	PM	AL	2/day [d,n]	15 x 50 - 50 x 50 km :: G	2 km :: Atmos
		2086	Cloud Cover	I	E	CERES	TRM,AM,PM	AL	6/day [d,n]	25 km :: G	N/A :: Atmos
CO Concentration (901)	Drummond	2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2347	Level-1B Radiance, AIRS	I	E	AIRS(AIRS)	PM	AL	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
		2375	Level-1B Radiance, ASTER	I	E	ASTER	AM1	AL	1/16 day	15,30,90m :: G	N/A :: at sensor
		2394	Level-1B Radiance, MOPITT	I	E	MOPITT	AM1	AL	1/(0.4 s) [?]	22 km :: G	Column :: Atmos
		44	model output/analysis	I	N			BL			
		333	CO observations	I	N		in situ (ground)				
		334	CO observations	I	N		in situ (aircraft)				
		1086	CH4 Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-65 km
		1172	H2O2 Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
		1180	HBr Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 15-40 km
		1187	HCl Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-65 km
		1192	HCN Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 25-35 km
		1197	HF Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 40-60 km
		1204	HN03 Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-45 km
		1217	HO2 Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-75 km
Atmospheric Constituent and Temperature Profiles (731)	Russell	1223	HOCl Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-45 km
		1241	N2O Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 20-40 km
		1255	N2O5 Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5-3 km :: 10-45 km
		1275	NO2 Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 15-60 km
		1298	O3(3P) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 90-180 km
		1300	O2 Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 1-5 dg :: 86S-86N	3 km :: 10-80 km
		1320	O3 Conc	O	E	SAFIRE	MO	AL	1/(18-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	1.5-3 km :: 10-100 km
		1327	O3O3(NU1,3) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
		1329	O3(NU2) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
		1340	O3(O17OOO) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
		1341	O3(17*OOO) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-40 km
		1344	O3(O18 OO) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
		1345	O3(A18OOO) Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-40 km
		1360	OH Conc	O	E	SAFIRE	MO	AL	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-90 km

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Atmospheric Constituent and Temperature Profiles (731)	Russell	1526	Pressure	O	SAFIRE	MO	AL	1/(18-72 s) [7]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-110 km
		1610	Temperature Profile	O	SAFIRE	MO	AL	1/(18-72 s) [7]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-110 km
		1839	H2O Conc	O	SAFIRE	MO	AL	1/(36-72 s) [7]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-100 km
		1852	H2O (H2+17O) Conc	O	SAFIRE	MO	AL	1/(36-72 s) [7]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
		1853	H2O (H2+18O) Conc	O	SAFIRE	MO	AL	1/(36-72 s) [7]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-60 km
		1857	H2O (H2O) Conc	O	SAFIRE	MO	AL	1/(36-72 s) [7]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-60 km
		2396	Level-1B Radiance, SAFIRE	I	SAFIRE	MO	AL			
		72	pressure-height field	I		model analysis (NMC)	AL			
		1012	Aerosol Extinction Coef	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 0-40 km
		1276	NO2 Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 10-50 km
Cloud Retrieval (905)	McCormick	1277	NO2 Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 20-50 km
		1321	O3 Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-85 km
		2543	Level-1B Transmission, SAGE-III	I	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
		1437	Cloud Height, Top, PSC	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: Strat/Trop
		2543	Level-1B Transmission, SAGE-III	I	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
		1301	Pressure	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day (Lam.)	<2 x <1 dg :: G	1 km :: 6-55 km
		1302	Pressure	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day (Sol.)	<2 x <1 dg :: G	1 km :: 6-70 km
		1840	H2O Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 3-50 km
		1841	H2O Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 3-50 km
		2543	Level-1B Transmission, SAGE-III	I	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
Temperature Retrieval (907)	McCormick	1611	Temperature Profile	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 6-55 km
		1612	Temperature Profile	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-70 km
		2543	Level-1B Transmission, SAGE-III	I	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
		1282	NO3 Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 20-55 km
		1353	OCIO Conc	O	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	<2 x <1 dg :: G	2 km :: 15-25 km
		2543	Level-1B Transmission, SAGE-III	I	SAGE-III	AERO,CHEM	AL	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
		2277	Irradiance, UV Solar (0.0015 nm res.)	O	SOLSTICE	MO	AL	1/hr	N/A :: N/A	N/A :: NA
		2278	Irradiance, UV Solar (0.1 nm res.)	O	SOLSTICE	MO	AL	1/hr	N/A :: N/A	N/A :: NA
		3640	Spectra, UV Stellar Comparison (0.1 nm res.?)	O	SOLSTICE	MO	AL		N/A :: N/A	N/A :: NA
		2398	Level-1B Irradiance, SOLSTICE	I	SOLSTICE	MO	AL	1/hr	2 dg :: G	1 km :: Mid_atm
Solar Stellar Irradiance Comparison Experiment (721)	Rottman	44	model output/analysis	I			BL			
		1679	Wind Velocity, Sea_sfc	O	STIKSCAT	CHEM	AL	1/(2 day)	1 dg :: Ocean	N/A :: Near_Sfc
		1680	Wind Velocity, Sea_sfc	O	STIKSCAT	CHEM	AL	1/(2 day)	25 km :: Ocean	N/A :: Near_Sfc
		1746	Wind Stress	O	STIKSCAT	CHEM	AL		:: Ocean	:: Sfc
		2108	Level-1B Backscatter Coef	O	STIKSCAT	CHEM	AL		25 km :: G	N/A :: Sfc
		1869	Precipitable Water	I	AIRS	PM	AL	2/day [d.n]	50 km :: G	N/A :: Trop
		1900	Cloud Liq. water Total Column	I	CERES	TRM,AM,PM	AL	6/day [d.n]	25 km :: G	Column :: Atmos
		2108	Level-1B Backscatter Coef	I	STIKSCAT	CHEM	AL		25 km :: G	N/A :: Sfc
		2181	Radiative Flux, LW, Net	I	CERES	TRM,AM,PM	AL	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
		2230	Radiative Flux, SW, Net	I	CERES	TRM,AM,PM	AL	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
Wind Velocity and Wind Vectors Algorithm (810)	Freilich	2528	Sea_sfc Temperature (SST)	I	MODIS	AM,PM	AL	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		3594	Wind Stress, Sea_sfc	I	MMR	PM1	AL		39 km :: Ocean	N/A :: Sfc
		3596	Precipitable Water	I	MMR	PM1	AL		22 km :: Ocean	Column :: Trop

Appendix P: Algorithm Summary Table for Instruments

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Wind Velocity and Wind Vectors Algorithm (810)	Freilich	3598	Cloud Liq. water Total Column	I	E	MIMR	PM1	AL		22 km :: Ocean	N/A :: Trop
		3602	Level-1B Radiance, MIMR	I	E	MIMR	PM1	AL	1 day	1 dg :: Global	N/A ::
		3603	Sea_ice Temperature (SST)	I	E	MIMR	PM1	AL		60 km :: Ocean	N/A :: Sfc
		3611	Sea_Ice Conc	I	E	MIMR	PM1	AL		22 km :: Ocean/Cryo	N/A :: Sfc
		47	geophysical data	I	N		in situ (ship)	BL			
		48	geophysical data	I	N		in situ (ship)	BL			
		53	wind speed	I	N		in situ (buoy)	BL			
		653	ocean wave data	I	N		in situ (buoy)	BL			
		654	surface analysis fields	I	N		model	AL	6-12 hr	2.5 x 2.5 dg :: Ocean/G	N/A :: Sfc
		746	sea surface temperature (SST)	I	N		in situ (buoy)	BL			
		1087	CH4 Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
		1088	CH4 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1089	CH4 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1127	CO Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1128	CO Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
Atmospheric Constituent and Temperature Profiles (741)	Beer	1129	CO Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
		1205	HNO3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1206	HNO3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1243	N2O Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1256	NH3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1267	NO Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1268	NO Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1278	NO2 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1323	O3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1324	O3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1325	O3 Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1370	SO2 Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
		1614	Temperature Profile	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1615	Temperature Profile	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	1 km, 4-6 km :: 0-12 km
		1616	Temperature Profile	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		1842	H2O Conc, Tropospheric	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1843	H2O Conc, Stratospheric	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
		1844	H2O Conc	O	E	TES	CHEM	AL	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
		2455	Land_ice Brightness Temperature (Radiance)	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
		3637	CO2 Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: G	N/A :: Sfc
		3638	HCl Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: L	
		3639	HF Conc	O	E	TES	CHEM	AL	1/(16 day)	16 x 5 km :: L	
		1014	Aerosol Layer Boundary Height	I	E	GLRS-A	ALT	AL	1/(2-16 day)	2-200 km :: G	75 m :: Atmos
		1528	Cloud Pressure, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		2081	Cloud Cover	I	E	MODIS	AM,PM	AL	2day (d.n), 1/mo	5 km :: G	N/A :: Cloud
		2291	Aerosol Optical Depth	I	E	GLRS-A	ALT	AL	1/(2-16 day)	2-200 km :: G	N/A :: Atmos
		2402	Level-1B Radiance, TES	I	E	TES	CHEM	AL			
		2467	Cloud Temperature, Top	I	E	MODIS	AM,PM	AL	2/day	5 km :: G	N/A :: Cloud
		159	wind analysis	I	N						

# **Algorithm Summary Table for IDS Investigators**

Appendix Q

Science Processing Support Office (SPSO)

Goddard Space Flight Center

August 1992



Product numbers < 1000 refer to non-EOS data requirements described in Appendix R

O = output product  
I = input product  
E and N denote that the product is from an EOS or non-EOS instrument

The attributes are for the corresponding input (I) or output (O) products. AL = at launch; BL = before launch; PL = post launch. d,n denote day and night respectively. L, R and G denote local, regional and global respectively (see Appendix A for acronyms).

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Climate Processes Over Oceans (599)	Hartmann	1411	Cloud Structure, Mesoscale	O	E				1/day	100 km :: Sites	
		1472	Heat Flux, Latent	O	E				1/day	100 km :: Ocean	Sfc ::
		1891	Cloud Ice Content	O	E				1/day	10 km :: G	
		1923	Cloud Liq. water Total Column	O	E				1/day	10 km :: G	Column :: Trop
		1945	Precipitation Amount	O	E				1/day	10 km :: Ocean	
		1002	Aerosol Optical Depth	I	E				1/day	20 km :: G	3 km :: 0-15 km
		1020	Aerosol Size-distribution	I	E				1/day	20 km :: G	N/A :: 0-15 [?]
		1575	Temperature Profile	I	E				1/day	10 km :: Ocean	1 km :: 0-15 km
		1664	Wind Velocity, Sea_sfc	I	E				1/day	50 km :: Ocean	N/A :: Sfc
		1	wind velocity	I	N	NSCAT	ADEOS	BL			
		3	humidity	I	N	SSM/I	DMSP	BL			

The algorithm ID is for internal use and has no physical significance.

## Legend for Appendix Q: Algorithm Summary Tables for IDS Investigators

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Primary Production and Fluorescence (593)	Abbott	1469	Heat Flux, Latent	O	E				1/wk	50 km :: Ocean [Southern]	:: Sfc
		3092	Ocean Current Velocity	O	E				1/day	10 km :: Ocean [Southern]	N/A :: Sfc
		3094	Ocean Current Velocity, Geostrophic	O	E				1/mo	:: Ocean [Southern]	N/A :: TOO
		3102	Ocean Eddy Kinetic Energy	O	E				1/(3 mo)	:: Ocean [Southern]	:: Sfc
		3113	Sea Level Height-Change	O	E					:: Ocean [Southern]	:: Sfc
		1563	Temperature Profile	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	1 km :: Trop
		1707	Wind Speed, Sea_sfc	I	E				1/(10-20 day)	25 km :: Ocean [Southern]	N/A :: Sfc
		1708	Wind Speed, Sea_sfc	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	N/A :: Sfc
		1753	Wind Velocity, Sea_sfc	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	N/A :: Sfc
		1754	Wind Velocity	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	1 km :: Trop
		1805	Humidity Profile	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	1 km :: Trop
		1858	Precipitable Water	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	Column :: Trop
		1918	Cloud Liq_water Total Column	I	E				1/(1-2 day)	25 km :: Ocean [Southern]	Column :: Trop
		1972	Precipitation Rate, Rain	I	E				(1-2)/day	25 km :: Ocean [Southern]	N/A :: Trop
		2269	Irradiance, Solar	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: Sfc
		2504	Sea_sfc Temperature (SST)	I	E				(1-2)/day	1.4 km :: Ocean [Southern]	N/A :: Sfc
		2505	Sea_sfc Temperature (SST)	I	E				(1-2)/day	50 km :: Ocean [Southern]	N/A :: Sfc
		2579	Organic Matter Conc, Dissolved	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: TOO
		2584	Pigment Conc, Phycoerythrin	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: TOO
		2587	Pigment Conc, Phytoplankton	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: TOO
		2597	Ocean Productivity, Primary, Total Column	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: TOO
		2598	Ocean Productivity, Primary, Near sfc	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: Near_sfc
		3105	Sea Level Height	I	E				1/(10-20 day)	10-20 km :: Ocean [Southern]	N/A :: Sfc
		3130	Ocean Wave Height, Significant	I	E				1/(10-20 day)	10-20 km :: Ocean [Southern]	N/A :: Sfc
		3156	Sea Ice Edge	I	E				1/day	25 km :: Ocean/Cryo [Southern]	N/A :: Sfc
		3204	Ocean Water Attenuation Coef	I	E				1/(1-2 day)	1.4 km :: Ocean [Southern]	N/A :: TOO
		3209	Phytoplankton Backscatter	I	E			AL	1/day	1.4 km :: Ocean	N/A :: N/A
		189	precipitation	I	N	MSU	NOAA	BL	2/day	150 km :: Ocean	
		195	oceanographic data	I	N		in situ (optical buoy system)	BL			
		204	fluorescence response of phytoplankton	I	N	Laser-stimulated	in situ	BL			
		205	fluorescence mapping data	I	N	CASI	in situ (ship)	BL			
		206	chlorophyll fluorescence	I	N		in situ (ship)	BL			
		207	eddy fields and interactions with CA current	I	N		in situ (ship)	BL			
Global Water Cycle - Earth System (600)	Barron	1439	Humidity, Specific	O	E				1/(5 min)	30 km :: [East U.S.]	
		1440	Humidity, Specific	O	E				1/(5 min)	500 m :: [East U.S.]	
		1443	Heating, Convective	O	E				1/hr	20-100 km :: R	
		1444	Heating, Convective	O	E				1/hr	1 km :: R	
		1445	Heating, East-West Sfc-stress	O	E				2/day	4.5 x 7.5 dg :: G	
		1446	Heating, East-West Sfc-stress	O	E				2/day	2.8 x 2.8 dg :: G	



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Water Cycle - Earth System (600)	Barron	1447	Heating, North-South Sfc-stress	O	E				2/day	4.5 x 7.5 dg :: G	
		1448	Heating, North-South Sfc-stress	O	E				2/day	2.8 x 2.8 dg :: G	
		1449	Heating, Net Diabetic	O	E				1/(5 day)	2.5 dg :: G	10 m ::
		1450	Heating Rate, LW Radiative	O	E				2/day	4.5 x 7.5 dg :: G	
		1451	Heating Rate, LW Radiative	O	E				2/day	2.8 x 2.8 dg :: G	
		1453	Heating Rate, SW Radiative	O	E				2/day	4.5 x 7.5 dg :: G	
		1454	Heating Rate, SW Radiative	O	E				2/day	2.8 x 2.8 dg :: G	
		1455	Heating Rate, U-horizontal Diffusive	O	E				2/day	4.5 x 7.5 dg :: G	
		1456	Heating Rate, U-horizontal Diffusive	O	E				2/day	2.8 x 2.8 dg :: G	
		1457	Heating Rate, U-horizontal Diffusive	O	E				2/day	4.5 x 7.5 dg :: G	
		1458	Heating Rate, U-horizontal Diffusive	O	E				2/day	2.8 x 2.8 dg :: G	
		1459	Heating Rate, V-horizontal Diffusive	O	E				2/day	4.5 x 7.5 dg :: G	
		1460	Heating Rate, V-horizontal Diffusive	O	E				2/day	2.8 x 2.8 dg :: G	
		1461	Heating Rate, V-horizontal Diffusive	O	E				2/day	4.5 x 7.5 dg :: G	
		1462	Heating Rate, V-horizontal Diffusive	O	E				2/day	2.8 x 2.8 dg :: G	
		1470	Heat Flux, Latent	O	E				1/(5 day)	2.5 dg :: G	10 m ::
		1480	Heat Flux, Sensible	O	E				2/day	4.5 x 7.5 dg :: G	
		1481	Heat Flux, Sensible	O	E				2/day	2.8 x 2.8 dg :: G	
		1482	Heat Flux, Sensible	O	E				1/day	10 km :: R	
		1488	Heat Flux, Sfc	O	E				1/(5 day)	2.5 dg :: G	
		1489	Heat Flux, Sfc	O	E				1/(5 min)	30 km :: [East, U.S.]	
		1490	Heat Flux, Sfc	O	E				1/hr	20-100 km :: R	
		1491	Heat Flux, Sfc	O	E				1/(5 min)	500 m :: [East, U.S.]	
		1494	Heat Flux Convergence, Eddy	O	E				1/(5 day)	2.5 dg :: G	
		1495	Heat Flux Rate, Latent	O	E				2/day	4.5 x 7.5 dg :: G	
		1496	Heat Flux Rate, Latent	O	E				2/day	2.8 x 2.8 dg :: G	
		1504	Vertical Motion, Omega	O	E				2/day	2.8 x 2.8 dg :: G	
		1505	Vertical Motion, Omega	O	E				2/day	4.5 x 7.5 dg :: G	
		1506	Vertical Motion	O	E				1/hr	1 km :: R	
		1507	Vertical Motion	O	E				1/hr	20-100 km :: R	
		1508	Vertical Motion, Omega	O	E				1/(6 hr)	1 dg :: G	15-20 m ::
		1521	Pressure	O	E				1/hr	20-100 km :: R	
		1522	Pressure	O	E				1/hr	1 km :: R	
		1534	Pressure, Sfc	O	E				2/day	4.5 x 7.5 dg :: G	N/A :: Sfc
		1535	Pressure, Sfc	O	E				2/day	2.8 x 2.8 dg :: G	N/A :: Sfc
		1538	Pressure-Tendency, Sfc	O	E				2/day	4.5 x 7.5 dg :: G	N/A :: Sfc
		1539	Pressure-Tendency, Sfc	O	E				2/day	2.8 x 2.8 dg :: G	N/A :: Sfc
		1558	Wind Stress, Meridional	O	E				2/day	2.8 x 2.8 dg :: G	Sfc ::
		1589	Temperature Profile	O	E				2/day	4.5 x 7.5 dg :: G	
		1590	Temperature Profile	O	E				1/(5 min)	30 km :: [East, U.S.]	
		1591	Temperature Profile	O	E				1/hr	20-100 km :: R	
		1592	Temperature Profile	O	E				2/day	2.8 x 2.8 dg :: G	
		1593	Temperature Profile	O	E				1/(5 min)	500 m :: [East, U.S.]	
		1594	Temperature Profile	O	E				1/hr	1 km :: R	
		1628	Temperature, Dry-bulb, PBL	O	E				1/day	10 km :: R	
		1634	Temperature-Change, Convective_Adjustment	O	E				2/day	4.5 x 7.5 dg :: G	
		1635	Temperature-Change, Convective_Adjustment	O	E				2/day	2.8 x 2.8 dg :: G	
		1636	Temperature-Tendency	O	E				2/day	4.5 x 7.5 dg :: G	
		1637	Temperature-Tendency	O	E				2/day	2.8 x 2.8 dg :: G	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Water Cycle - Earth System (600)	Barron	1647	Wind V Tendency	O	E				2/day	4.5 x 7.5 dg :: G	
		1648	Wind V Tendency	O	E				2/day	2.8 x 2.8 dg :: G	
		1696	Wind U Tendency	O	E				2/day	2.8 x 2.8 dg :: G	
		1698	Wind U Tendency	O	E				2/day	4.5 x 7.5 dg :: G	
		1704	Wind Direction	O	E				1/(5 min)	30 km :: [East, U.S.]	
		1705	Wind Direction	O	E				1/(5 min)	500 m :: [East, U.S.]	
		1721	Wind Speed	O	E				1/(5 min)	30 km :: [East, U.S.]	
		1722	Wind Speed	O	E				1/(5 min)	500 m :: [East, U.S.]	
		1723	Wind Speed	O	E				1/hr	20-100 km :: R	
		1724	Wind Speed	O	E				1/hr	1 km :: R	
		1736	Wind Speed, Meridional	O	E				2/day	4.5 x 7.5 dg :: G	
		1737	Wind Speed, Meridional	O	E				2/day	2.8 x 2.8 dg :: G	
		1740	Wind Speed, Zonal	O	E				2/day	4.5 x 7.5 dg :: G	
		1741	Wind Speed, Zonal	O	E				2/day	2.8 x 2.8 dg :: G	
		1747	Wind Stress, Zonal	O	E				2/day	4.5 x 7.5 dg :: G	Sfc ::
		1748	Wind Stress, Zonal	O	E				2/day	2.8 x 2.8 dg :: G	Sfc ::
		1750	Wind Stress, Meridional	O	E				2/day	4.5 x 7.5 dg :: G	Sfc ::
		1786	Cloud Condensation Rate, Total	O	E				2/day	4.5 x 7.5 dg :: G	
		1787	Cloud Condensation Rate, Total	O	E				2/day	2.8 x 2.8 dg :: G	
		1792	Vegetation Evapotrans	O	E				1/event, 1/mo, 1/yr	30-90 m :: R	
		1793	Vegetation Evapotrans	O	E				1/event, 1/mo, 1/yr	900 m :: R	
		1794	Vegetation Evapotrans	O	E				1/event, 1/mo, 1/yr	18 km :: R	
		1829	Humidity	O	E				1/hr	20-100 km :: R	
		1830	Humidity	O	E				1/hr	1 km :: R	
		1831	Humidity Profile	O	E				1/(6 hr)	1 dg :: G	15-20 vl ::
		1847	Moisture Flux	O	E				1/mo	10 x 10 km :: N, Atlantic	
		1848	Moisture Flux, Sfc	O	E				1/day	10 km :: R	N/A :: Sfc
		1849	Moisture Flux, Sfc	O	E				1/(3 min)	30 km :: [East, U.S.]	:: Sfc
		1850	Moisture Flux, Sfc	O	E				1/hr	20-100 km :: R	:: Sfc
		1851	Moisture Flux, Sfc	O	E				1/(3 min)	500 m :: [East, U.S.]	:: Sfc
		1876	Precipitable Water	O	E				1/hr	20-100 km :: R	
		1877	Precipitable Water	O	E				1/hr	1 km :: R	
		1880	Humidity Profile, PBL	O	E				1/day	10 km :: R	:: PBL
		1882	Humidity, Specific	O	E				2/day	4.5 x 7.5 dg :: G	
		1883	Humidity, Specific	O	E				2/day	2.8 x 2.8 dg :: G	
		1886	Humidity-Change, Specific, Convective, Adjusted	O	E				2/day	4.5 x 7.5 dg :: G	
		1887	Humidity-Change, Specific, Convective, Adjusted	O	E				2/day	2.8 x 2.8 dg :: G	
		1888	Humidity-Tendency, Specific	O	E				2/day	4.5 x 7.5 dg :: G	
		1889	Humidity-Tendency, Specific	O	E				2/day	2.8 x 2.8 dg :: G	
		1912	Cloud Liq. water Content	O	E				1/(6 hr)	1 dg :: G	15-20 vl ::
		1913	Cloud Liq. water Content	O	E				1/(6 hr)	1 dg :: G	15-20 vl ::
		1914	Cloud Liq. water Content	O	E				1/hr	20-100 km :: R	
		1915	Cloud Liq. water Content	O	E				1/hr	1 km :: R	
		1946	Precipitation Amount, Convective	O	E				2/day	4.5 x 7.5 dg :: G	
		1947	Precipitation Amount, Convective	O	E				2/day	2.8 x 2.8 dg :: G	
		1951	Precipitation Conc, Ice	O	E				1/(6 hr)	1 dg :: G	15-20 vl ::
		1952	Precipitation Amount, Large-scale, stable	O	E				2/day	4.5 x 7.5 dg :: G	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
Global Water Cycle - Earth System (600)	Barron	1953	Precipitation Amount, Large-scale, stable	O E				2/day	2.8 x 2.8 dg :: G	
		1956	Precipitation Amount, Rain	O E				1/(6 hr)	1 dg :: G	15-20 vl ::
		1962	Precipitation Rate	O E				1/hr	20-100 km :: R	
		1980	Precipitation Rate, Rain	O E				1/(5 min) [?]	30 km :: [East, U.S.]	
		1981	Precipitation Rate, Rain	O E				1/(5 min) [?]	500 m :: [East, U.S.]	
		1985	Precipitation Amount, Snow, Convective	O E				2/day	4.5 x 7.5 dg :: G	
		1986	Precipitation Amount, Snow, Convective	O E				2/day	2.8 x 2.8 dg :: G	
		1987	Precipitation Amount, Snow, Large-scale, Stable	O E				2/day	4.5 x 7.5 dg :: G	
		1988	Precipitation Amount, Snow, Large-scale, Stable	O E				2/day	2.8 x 2.8 dg :: G	
		2004	Albedo, Planetary Spectral, TOA	O E				2/day	4.5 x 7.5 dg :: G	:: TOA
		2005	Albedo, Planetary Spectral, TOA	O E				2/day	2.8 x 2.8 dg :: G	:: TOA
		2064	Cloud Cover	O E				1/day	10 km :: R	
		2065	Cloud Cover	O E				1/(5 min)	30 km :: [East, U.S.]	
		2066	Cloud Cover	O E				1/(5 min)	2 km :: [East, U.S.]	
		2089	Cloud Cover	O E				2/day	4.5 x 7.5 dg :: G	
		2090	Cloud Cover	O E				2/day	2.8 x 2.8 dg :: G	
		2117	Cloud Emissivity	O E				2/day	4.5 x 7.5 dg :: G	
		2118	Cloud Emissivity	O E				2/day	2.8 x 2.8 dg :: G	
		2130	Heat Flux	O E				1/day	200 km :: R	
		2132	Heat Flux, Sfc	O E				1/day	200 km :: R	:: Sfc
		2133	Radiative Flux, Solar, Net, Down	O E				2/day	4.5 x 7.5 dg :: G	:: Sfc
		2134	Radiative Flux, Solar, Net, Down	O E				2/day	2.8 x 2.8 dg :: G	:: Sfc
		2139	Radiative Flux, Net, Down	O E				2/day	4.5 x 7.5 dg :: G	
		2140	Radiative Flux, Net, Down	O E				2/day	2.8 x 2.8 dg :: G	
		2143	Radiative Flux Convergence	O E				1/(5 day)	2.5 dg :: G	10 vl ::
		2155	Radiative Flux, LW, Average, Net	O E				2/day	4.5 x 7.5 dg :: G	:: TOA
		2156	Radiative Flux, LW, Average, Net	O E				2/day	2.8 x 2.8 dg :: G	:: TOA
		2159	Radiative Flux, LW, Clear-sky	O E				2/day	4.5 x 7.5 dg :: G	:: Sfc
		2160	Radiative Flux, LW, Clear-sky	O E				2/day	2.8 x 2.8 dg :: G	:: Sfc
		2161	Radiative Flux, LW, Clear-sky	O E				2/day	4.5 x 7.5 dg :: G	:: TOA
		2162	Radiative Flux, LW, Clear-sky	O E				2/day	2.8 x 2.8 dg :: G	:: TOA
		2441	Radiative Flux, Solar, Ave-absorbed	O E				2/day	4.5 x 7.5 dg :: G	
		2442	Radiative Flux, Solar, Ave-absorbed	O E				2/day	2.8 x 2.8 dg :: G	
		2443	Radiative Flux, Solar, TOA Clear-sky	O E				2/day	4.5 x 7.5 dg :: G	:: TOA
		2444	Radiative Flux, Solar, Sfc Clear-sky	O E				2/day	4.5 x 7.5 dg :: G	:: Sfc
		2445	Radiative Flux, Solar, TOA Clear-sky	O E				2/day	2.8 x 2.8 dg :: G	:: TOA
		2446	Radiative Flux, Solar, Sfc Clear-sky	O E				2/day	2.8 x 2.8 dg :: G	:: Sfc
		2454	Sea_sfc Brightness Temperature (Radiance)	O E				1/(5 day)	2.5 dg :: G	
		2486	Land_sfc Temperature	O E				1/(5 min)	30 km :: [East, U.S.]	
		2487	Land_sfc Temperature	O E				1/(5 min)	500 m :: [East, U.S.]	
		2494	Land_sfc Temperature	O E				2/day	4.5 x 7.5 dg :: G	:: Sfc
		2495	Land_sfc Temperature	O E				2/day	2.8 x 2.8 dg :: G	:: Sfc
		2770	Erosion Chemical Denudation	O E				1/yr	10 km :: Land/R	
		2771	Erosion Chemical Denudation	O E				1/yr	100 km :: Land	
		2779	Bedrock Lithology	O E				7 5000 yrs	5 km :: 2 sites	
		2782	Erosion Sediment Yield	O E				7 5000 yr	5 km :: 2 sites	
		2813	Mineral Flux, XXX Geochemical	O E				1/day	1 km :: Land/R	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Water Cycle - Earth System (600)	Barron	2814	Mineral Flux, XXX Geochemical	O	E				1/day	10 km :: Land	
		2815	Bedrock Lithology	O	E				1/mission	10 km :: Land/R	
		2816	Bedrock Lithology	O	E				1/mission	100 km :: Land	
		2840	Topographic Elevation, Land_sfc	O	E				7 5000 yr	5 km :: 2 sites	
		2852	Geopotential Gravity Field	O	E				2/day	4.5 x 7.5 dg :: G	
		2853	Geopotential Gravity Field	O	E				2/day	2.8 x 2.8 dg :: G	
		2890	River Discharge	O	E				1/event, 1/mo, 1/yr	30-90 m :: R	
		2891	River Discharge	O	E				1/event, 1/mo, 1/yr	900 m :: R	
		2892	River Discharge	O	E				1/event, 1/mo, 1/yr	18 km :: R	
		2933	Infiltration	O	E				1/event, 1/mo, 1/yr	30-90 m :: R	
		2934	Infiltration	O	E				1/event, 1/mo, 1/yr	900 m :: R	
		2935	Infiltration	O	E				1/event, 1/mo, 1/yr	18 km :: R	
		2945	Ice Sheet Mass balance	O	E				1/yr	100 km :: Antarctica	
		2955	Surface Water Saturated Area	O	E				1/event, 1/mo, 1/yr	30-90 m :: R	
		2956	Surface Water Saturated Area	O	E				1/event, 1/mo, 1/yr	900 m :: R	
		2957	Surface Water Saturated Area	O	E				1/event, 1/mo, 1/yr	18 km :: R	
		2969	Soil Moisture	O	E				1/event, 1/mo, 1/yr	30-90 m :: R	
		2970	Soil Moisture	O	E				1/event, 1/mo, 1/yr	900 m :: R	
		2971	Soil Moisture	O	E				1/event, 1/mo, 1/yr	18 km :: R	
		2992	Runoff, Soil Moisture	O	E				2/day	4.5 x 7.5 dg :: G	
		2993	Runoff, Soil Moisture	O	E				2/day	2.8 x 2.8 dg :: G	
		2994	Precipitation Amount, Snow	O	E				2/day	4.5 x 7.5 dg :: G	
		2995	Precipitation Amount, Snow	O	E				2/day	2.8 x 2.8 dg :: G	
		3067	Soil Moisture	O	E				2/day	4.5 x 7.5 dg :: Land	N/A :: Sfc
		3068	Soil Moisture	O	E				2/day	2.8 x 2.8 dg :: Land	N/A :: Sfc
		3100	Heat Flux, Zonal_mean	O	E				1/5 day	2.5 dg/2M :: G	10 W ::
		3114	Sea_Level Height-Change	O	E				[ice response]	G ave :: G	N/A :: Sfc
		3143	Sea_Ice Conc	O	E				1/day	50 km :: Ocean/Cryo	
		3146	Sea_Ice Conc, GCM	O	E				1/day	4.5 x 7.5 dg :: G	
		3147	Sea_Ice Conc, GCM	O	E				1/day	2.8 x 2.8 dg :: G	
		3163	Wind Velocity	O	E				[ice response]	[crit feat] :: [modern ice]	N/A :: Sfc
		3176	Sea_Ice Conc, Multi-year	O	E				1/season	50 km ::	
		3179	Sea_Ice Cover	O	E				1/day	50 km :: Ocean/Cryo	
		3184	Sea_Ice Fraction, Open-water	O	E				[ice response]	[crit feat] :: [modern ice]	N/A :: Sfc
		3185	Sea_Ice Cover	O	E				1/day	4.5 x 7.5 dg :: G	
		3186	Sea_Ice Max Extent	O	E				1/day	2.8 x 2.8 dg :: G	
		1380	Cloud Height, Base	I	E				1/day	100 km :: G	100 m :: Cloud
		1381	Cloud Height, Base	I	E				1/day	10 km :: R	100 m :: Cloud
		1382	Cloud Height, Base	I	E				1/day	30 m :: L	100 m :: Cloud
		1412	Cloud Height, Top	I	E				1/day	100 km :: G	100 m :: Cloud
		1413	Cloud Height, Top	I	E				1/day	10 km :: R	100 m :: Cloud
		1414	Cloud Height, Top	I	E				1/day	30 m :: L	100 m :: Cloud
		1510	PBL Height	I	E				1/day	10 km :: R	100 m :: Mixed Jyr
		1511	PBL Height	I	E				1/day	100 km :: G	100 m :: Mixed Jyr
		1545	Land_sfc Roughness	I	E				1/mission, 1/yr	10 km :: Land/R	N/A :: Sfc
		1546	Land_sfc Roughness	I	E				1/mission, 1/yr	30 m :: Land/L	N/A :: Sfc
		1547	Land_sfc Roughness	I	E				1/mission, 1/yr	100 km :: Land	N/A :: Sfc
		1564	Temperature Profile	I	E				1/day	100 km :: G	1 km :: Trop
		1565	Temperature Profile	I	E				1/day	10 km :: R	1 km :: Trop

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Water Cycle - Earth System (600)	Barron	1366	Temperature, Near_sfc	I	E				1/day	100 km :: Ocean	N/A :: Sfc
		1368	Temperature, Near_sfc	I	E				1/day	10 km :: Ocean/R	N/A :: Sfc
		1650	Wind Velocity	I	E				1/day	30 m :: L	1 km :: 0-12 km
		1651	Wind Velocity	I	E				1/day	10 km :: R	1 km :: 0-12 km
		1652	Wind Velocity	I	E				1/day	100 km :: L	1 km :: 0-12 km
		1653	Wind Velocity, Sea_sfc	I	E				1/day	10 km :: Ocean/R	N/A :: Sfc
		1654	Wind Velocity, Land_sfc	I	E				1/day	100 km :: Land	N/A :: Sfc
		1655	Wind Velocity, Land_sfc	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		1656	Wind Velocity, Land_sfc	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		1657	Wind Velocity, Sea_sfc	I	E				1/day	100 km :: Ocean	N/A :: Sfc
		1757	Lightning Rate	I	E				1/day	10 km :: G	N/A :: Atmos
		1806	Humidity Profile	I	E				1/day	10 km :: R	:: Trop
		1807	Humidity Profile	I	E				1/day	100 km :: G	:: Trop
		1859	Precipitable Water	I	E				1/day	30 m :: L	Column :: Trop
		1860	Precipitable Water	I	E				1/day	10 km :: R	Column :: Trop
		1861	Precipitable Water	I	E				1/day	100 km :: G	Column :: Trop
		1902	Cloud Liq_water Content	I	E				1/day	100 km :: G	1 km :: Cloud
		1903	Cloud Liq_water Content	I	E				1/day	10 km :: R	1 km :: Cloud
		1926	Precipitation Amount	I	E				1/day	100 km :: G	N/A :: Trop
		1927	Precipitation Amount	I	E				1/day	10 km :: R	N/A :: Trop
		2013	Albedo, Land_sfc	I	E				1/wk	10 km :: G	N/A :: Sfc
		2023	Albedo, TOA	I	E				1/day	100 km :: G	N/A :: TOA
		2049	Cloud Cover	I	E				1/day	100 km :: G	N/A :: Cloud
		2050	Cloud Cover	I	E				1/day	10 km :: R	N/A :: Cloud
		2051	Cloud Cover	I	E				1/day	30 m :: L	N/A :: Cloud
		2185	Radiative Flux, LW	I	E				1/day	100 km :: G	N/A :: Sfc
		2186	Radiative Flux, LW	I	E				1/day	30 m :: L	N/A :: Sfc
		2187	Radiative Flux, LW	I	E				1/day	10 km :: R	N/A :: Sfc
		2189	Radiative Flux, LW	I	E				1/day	100 km :: G	N/A :: TOA
		2236	Radiative Flux, SW	I	E				1/day	30 m :: L	N/A :: Sfc
		2237	Radiative Flux, SW	I	E				1/day	100 km :: G	N/A :: Sfc
		2238	Radiative Flux, SW	I	E				1/day	10 km :: R	N/A :: Sfc
		2239	Radiative Flux, SW	I	E				1/day	100 km :: G	N/A :: TOA
		2301	Cloud Optical Depth	I	E				1/day	100 km :: Ocean	N/A :: Cloud
		2302	Cloud Optical Depth	I	E				1/day	10 km :: Ocean/R	N/A :: Cloud
		2303	Cloud Optical Depth	I	E				1/day	30 m :: Ocean/L	N/A :: Cloud
		2458	Cloud Temperature, Emission	I	E				1/day	100 km :: G	N/A :: Cloud
		2459	Cloud Temperature, Emission	I	E				1/day	10 km :: R	N/A :: Cloud
		2472	Land_sfc Temperature, Skin	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		2473	Land_sfc Temperature, Skin	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		2474	Land_sfc Temperature, Skin	I	E				1/day	100 km :: G	N/A :: Sfc
		2506	Sea_sfc Temperature (SST)	I	E				1/day	100 km :: Ocean	N/A :: Sfc
		2507	Sea_sfc Temperature (SST)	I	E				1/day	10 km :: Ocean/R	N/A :: Sfc
		2612	Vegetation Biomass, Dead	I	E				1/mission	30 m :: L	N/A :: Sfc
		2613	Vegetation Biomass, Dead	I	E				1/mission	10 km :: R	N/A :: Sfc
		2615	Vegetation Biomass, Green	I	E				1/mission	30 m :: L	N/A :: Sfc
		2616	Vegetation Biomass, Green	I	E				1/mission	10 km :: R	N/A :: Sfc
		2639	Vegetation Structure	I	E				1/season	30 m :: Land/L	N/A :: Sfc
		2640	Vegetation Structure	I	E				1/season	10 km :: Land/R	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
Global Water Cycle - Earth System (600)	Barron	2673	Vegetation Index, Leaf Area, (LAI)	I	E				1/day	100 km :: Land	N/A :: Sfc
		2674	Vegetation Index, Leaf Area, (LAI)	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		2675	Vegetation Index, Leaf Area, (LAI)	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		2715	Vegetation Extent	I	E				1/yr	30 m :: Land/L	N/A :: Sfc
		2716	Vegetation Extent	I	E				1/yr	10 km :: Land/R	N/A :: Sfc
		2717	Vegetation Extent	I	E				1/yr	100 km :: Land	N/A :: Sfc
		2728	Vegetation Type	I	E				1/yr	10 km :: Land/R	N/A :: Sfc
		2729	Vegetation Type	I	E				1/yr	30 m :: Land/L	N/A :: Sfc
		2730	Vegetation Type	I	E				1/yr	100 km :: Land	N/A :: Sfc
		2739	Vegetation Type Boundaries	I	E				1/3 mo	30 m :: Land/L	N/A :: Sfc
		2785	Soil Proportion, Bare	I	E				1/season	10 km :: Land/R	N/A :: Sfc
		2786	Soil Proportion, Bare	I	E				1/season	100 km :: Land	N/A :: Sfc
		2787	Soil Proportion, Bare	I	E				1/season	30 m :: Land/L	N/A :: Sfc
		2794	Soil Composition	I	E				1/mission	100 km :: Land	N/A :: Sfc
		2795	Soil Composition	I	E				1/mission	30 m :: Land/L	N/A :: Sfc
		2796	Soil Composition	I	E				1/mission	10 km :: Land/R	N/A :: Sfc
		2797	Soil Extent	I	E				1/yr	100 km :: Land	N/A :: Sfc
		2798	Soil Extent	I	E				1/yr	10 km :: Land/R	N/A :: Sfc
		2799	Soil Extent	I	E				1/yr	30 m :: Land/L	N/A :: Sfc
		2804	Suspended-Solids Conc, Lake Water	I	E					10 km :: Land/R-Lakes	N/A :: Sfc
		2805	Suspended-Solids Conc, River Water	I	E					10 km :: Land/R-Rivers	N/A :: Sfc
		2807	Erosion Rock Weathering	I	E				1/mission	10 km :: Land/R	N/A :: Sfc
		2808	Erosion Rock Weathering	I	E				1/mission	100 km :: Land	N/A :: Sfc
		2823	Topographic Elevation, Land_sfc	I	E				1/mission	10 km :: Land/R	30 m :: Sfc
		2824	Topographic Elevation, Land_sfc	I	E				1/mission	30 m :: Land/L	30 m :: Sfc
		2849	Landform Distribution	I	E				1/3 mo	30 m :: Land/L	N/A :: Sfc
		2888	River Channel Geometry	I	E				1/season	1 m :: Land/L	N/A :: Sfc
		2905	Drainage Network Structure	I	E				1/3 mo	30 m :: Land/L	N/A :: Sfc
		2906	Ice Sheet Elevation	I	E				1/3 mo	10 km :: Land/Cryo	N/A :: Sfc
		2907	Ice Sheet Elevation	I	E				1/3 mo	100 km :: Land/Cryo	:: Sfc
		2929	Ice Sheet Velocity	I	E					:: Land/Cryo	N/A :: Sfc
		2946	Soil Moisture	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		2947	Soil Moisture	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		2948	Soil Moisture	I	E				1/day	100 km :: Land	N/A :: Sfc
		2950	Vegetation Moisture, Root-zone	I	E				1/day	100 km :: Land	N/A :: Sub_sfc
		2951	Vegetation Moisture, Root-zone	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		2952	Vegetation Moisture, Root-zone	I	E				1/day	30 m :: Land/L	N/A :: Sub_sfc
		2998	Snow Water Equivalent	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		2999	Snow Water Equivalent	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		3003	Snow Cover	I	E				1/day	100 km :: Land	N/A :: Sfc
		3004	Snow Cover	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		3005	Snow Cover	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		3051	Ice Sheet Temperature	I	E				1/wk	100 km :: Land/Cryo	N/A :: Sfc
		3052	Ice Sheet Temperature	I	E				1/wk	10 km :: Land/Cryo	N/A :: Sfc
		3053	Ice Sheet Thickness	I	E				1/3 mo	10 km :: Land/Cryo	:: Sfc
		3054	Ice Sheet Thickness	I	E				1/3 mo	100 km :: Land/Cryo	30 m :: Sfc
		3062	Lake Extent	I	E				1/day	:: Land/R	N/A :: Sfc
		3063	River Extent	I	E				1/day	30 m :: Land/L	N/A :: Sfc
		3064	River Extent	I	E				1/day	10 km :: Land/R	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Water Cycle - Earth System (600)	Barron	3136	Sea_Ice Conc	I	E				1/day	100 km :: Ocean/Cryo	N/A :: Sfc
		3137	Sea_Ice Conc	I	E				1/day	10 km :: Ocean/Cryo	N/A :: Sfc
		3160	Sea_Ice Extent	I	E				1/day	100 km :: Ocean/Cryo	N/A :: Sfc
		3161	Sea_Ice Extent	I	E				1/day	10 km :: Ocean/Cryo	N/A :: Sfc
		3166	Sea_Ice Leads	I	E				1/day	100 km :: Ocean/Cryo	N/A :: Sfc
		3167	Sea_Ice Conc	I	E				1/day	30 m :: Ocean/Cryo	N/A :: Sfc
		3168	Sea_Ice Conc	I	E				1/day	10 km :: Ocean/Cryo	N/A :: Sfc
		3173	Sea_Ice Conc, Multi-year	I	E				1/day	100 km :: Ocean/Cryo	N/A :: Sfc
		3174	Sea_Ice Conc, Multi-year	I	E				1/day	10 km :: Ocean/Cryo	N/A :: Sfc
		4	precipitation	I	N	SSM/I	DMSP	BL			
		6	earth radiation budget	I	N	ERBE	NOAA	BL			
		12	cloud data	I	N	ISCCP	NOAA	BL			
		14	sounding data	I	N	VAS	GOES	BL			
		16	scene radiances	I	N	TM	Landsat	BL			
		22	geophysical data	I	N	SMR	Nimbus-7	BL			
		24	cloud data	I	N	AVHRR	NOAA	PL			
		34	geophysical data	I	N	SSM/I	DMSP	BL			
		39	climatology (T, H, P) data	I	N		in situ	BL			
		68	meteorological data (including diurnal cycle analysis)	I	N	GMS	EMEX	BL			
		94	geophysical data	I	N	TMS	in situ (aircraft)	BL			
		180	precipitation data	I	N	rain gauge	in situ				
		187	digital elevation model (surface topography)	I	N			AL	one time only	0.1 dg	
		323	run-off data	I	N		in situ	BL			
		324	precipitation estimates	I	N	SMR	Nimbus-7	BL			
		325	temperature estimates	I	N	SMR	Nimbus-7	BL			
		326	vegetation index (NDVI)	I	N	AVHRR	NOAA	BL			
		327	lightning ground strikes	I	N		in situ	BL			
		328	surface vegetation	I	N		in situ / Susquehanna	BL			
		329	climatological data (TD-1440 and NCDC)	I	N		in situ / Susquehanna	BL			
		332	general circulation model (GFDL)	I	N		model	BL			
		741	cloud ice data	I	N	AVHRR	NOAA	PL			
		747	General Circulation Model (GCM)	I	N		model	BL			
		786	soil type	I	N		in situ / Susquehanna	BL			
		787	runoff	I	N		in situ / Susquehanna	BL			
		788	stream chemistry	I	N		in situ / Susquehanna	BL			
		789	ground water	I	N		in situ / Susquehanna	BL			
		790	moisture and energy fluxes	I	N		in situ / Susquehanna	BL			
		791	land use	I	N		in situ / Susquehanna	BL			
		792	snow cover	I	N		in situ / Susquehanna	BL			
		793	water utilization	I	N		in situ / Susquehanna	BL			
		794	operational mesoscale forecasts	I	N		in situ / Susquehanna	BL			
		795	river widths	I	N	Lidar	in situ / Susquehanna	BL			
		796	geophysical data	I	N	SAR	in situ / Susquehanna	BL			
		803	soil wetness	I	N		in situ / Susquehanna	BL			
4-D Atmospheric/Ocean/Land Data Assimilation (601)	Bates	1376	Acceleration, Diffusive_Zonal	O	E				1/(4-6 hr)	50 km :: G	25 lyr :: 1000-0.1 mb
		1377	Acceleration, Diffusive_Meridional	O	E				1/(4-6 hr)	50 km :: G	25 lyr :: 1000-0.1 mb
		1396	Cloud Height, Base, Cirrus	O	E				1/(20 min)	50 km :: G	N/A :: High_cloud

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
4.D Atmospheric/Ocean/Land Data Assimilation (601)	Bates	1397	Cloud Height, Base, Low-level	O	E				1/(20 min)	50 km :: G	N/A :: Low_Cloud
		1398	Cloud Height, Base, Mid-level	O	E				1/(20 min)	50 km :: G	N/A :: Mid_Cloud
		1434	Cloud Height, Top, Cirrus	O	E				1/(20 min)	50 km :: G	N/A :: High_cloud
		1435	Cloud Height, Top, Low-level	O	E				1/(20 min)	50 km :: G	N/A :: Low_Cloud
		1436	Cloud Height, Top, Mid-level	O	E				1/(20 min)	50 km :: G	N/A :: Mid_Cloud
		1441	Heating Rate, Convective	O	E				1/(4-6 hr)	50 km :: G	25 yr :: 1000-0.1 mb
		1442	Heating Rate, Diffusive	O	E				1/(4-6 hr)	50 km :: G	25 yr :: 1000-0.1 mb
		1452	Heating Rate, LW_Radiative	O	E				1/(4-6 hr)	50 km :: G	N/A :: 1000-0.1 mb
		1471	Heat Flux, Latent	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		1483	Heat Flux, Sensible	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		1498	Geopotential Height	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1532	Pressure, Sfc	O	E				1/(20 min)	50 km :: G	N/A :: Sfc [Sea lvl]
		1536	Pressure, Sfc	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		1537	Pressure, Tropopause	O	E				1/(20 min)	50 km :: G	N/A :: Tropopause
		1540	Geopotential Height RMSE	O	E				1/(20 min)	100 km :: G	25 yr :: 1000-0.1 mb
		1541	Pressure-RMSE, Sfc	O	E				1/(20 min)	100 km :: G	N/A :: Sfc
		1542	Temperature-RMSE	O	E				1/(20 min)	100 km :: G	25 yr :: 1000-0.1 mb
		1543	Wind Speed RMSE, Mean_Meridional	O	E				1/(20 min)	100 km :: G	25 yr :: 1000-0.1 mb
		1544	Wind Speed RMSE, Mean_Zonal	O	E				1/(20 min)	100 km :: G	25 yr :: 1000-0.1 mb
		1617	Temperature, Dry-bulb, Near_sfc	O	E				1/(20 min)	25 km :: G	N/A :: 10 m
		1618	Temperature, Dry-bulb, PBL	O	E				1/(20 min)	50 km :: G	N/A :: PBL [top of]
		1619	Temperature, Dry-bulb, Near_sfc	O	E				1/(20 min)	50 km :: G	N/A :: 10 m
		1620	Temperature, Dry-bulb, Near_sfc	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1621	Temperature, Satospheric	O	E				1/(20 min)	25 km :: G	N/A :: PBL [Top of]
		1622	Temperature, Tropospheric	O	E				1/(20 min)	50 km :: G	N/A :: Tropopause
		1623	Temperature, Dry-bulb, Near_sfc	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1626	Temperature Profile	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1638	PBL Thickness	O	E				1/(20 min)	25 km :: G	N/A :: PBL
		1639	PBL Thickness	O	E				1/(20 min)	50 km :: G	N/A :: PBL
		1649	Wind Stress, Meridional	O	E				1/(20 min)	25 km :: G	N/A :: Sfc
		1691	Wind Speed, Mean Meridional	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1692	Vertical Motion	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1693	Wind Speed, Mean Zonal	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1694	Wind Speed, Meridional	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1695	Wind Trajectories	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1699	Wind Speed, Zonal	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1700	Wind Speed, Zonal	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1701	Wind Speed, Meridional	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1749	Wind Stress, Meridional	O	E				1/(20 min)	25 km :: G	N/A :: Near_sfc
		1751	Wind Stress, Zonal	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		1752	Wind Stress, Zonal	O	E				1/(20 min)	25 km :: G	N/A :: Sfc
		1879	Humidity Profile, Specific	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		1884	Humidity, Specific, Near_sfc	O	E				1/(20 min)	50 km :: G	50 yr :: 1000-0.1 mb
		1885	Humidity, Specific, Near_sfc	O	E				1/(20 min)	25 km :: G	N/A :: Near_sfc
		1924	Moistening, Convective	O	E				1/(20 min)	50 km :: G	N/A :: Near_sfc
		1925	Moistening, Diffusive	O	E				1/(4-6 hr)	50 km :: G	25 yr :: 1000-0.1 mb
		1942	Precipitation Amount	O	E				1/(4-6 hr)	50 km :: G	25 yr :: 1000-0.1 mb
		1948	Precipitation Amount, Convective	O	E				1/(4-6 hr)	50 km :: G	N/A :: Sfc
		1982	Humidity-RMSE, Specific	O	E				1/(20 min)	100 km :: G	N/A :: Sfc



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
4-D Atmospheric/Ocean/Land Data Assimilation (601)	Baies	2083	Cloud Cover, Cirrus	O	E				1/(20 min)	50 km :: G	N/A :: High_cloud
		2084	Cloud Cover, Mid-level	O	E				1/(20 min)	50 km :: G	N/A :: Mid_Cloud
		2085	Cloud Cover, Low-level	O	E				1/(20 min)	50 km :: G	N/A :: Low_Cloud
		2166	Radiative Flux, LW, Down	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		2184	Radiative Flux, LW, Up	O	E				1/(20 min)	50 km :: Land	N/A :: TOA
		2197	Radiative Flux, LW, Up	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		2219	Radiative Flux, SW, Down	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		2235	Radiative Flux, SW, Up	O	E				1/(20 min)	50 km :: Land	N/A :: TOA
		2243	Radiative Flux, SW, Up	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		2468	Cloud Temperature, Top	O	E				1/(20 min)	50 km :: G	N/A :: Low_Cloud
		2469	Cloud Temperature, Top	O	E				1/(20 min)	50 km :: G	N/A :: Mid_Cloud
		2470	Cloud Temperature, Top	O	E				1/(20 min)	50 km :: G	N/A :: High_cloud
		2499	Land_sfc Temperature, Skin	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		2843	Orography, Model	O	E				1/(20 min)	50 km :: G	N/A :: Sfc
		2954	Vegetation Moisture, Root-zone	O	E				1/(20 min)	50 km :: Land	N/A ::
		2972	Soil Moisture	O	E				1/(20 min)	50 km :: Land	N/A ::
		3035	Snow Depth	O	E				1/(20 min)	50 km :: Land	N/A :: Sfc
		3078	Ocean Water Salinity	O	E					:: Ocean	200 m :: 0-4500 m
		3096	Ocean Current Velocity, Meridional	O	E					:: Ocean	200 m :: 0-4500 m
		3097	Ocean Current Velocity, Zonal	O	E					:: Ocean	200 m :: 0-4500 m
		3109	Sea_Level Height	O	E					:: Ocean	N/A :: Sfc
		3118	Ocean Water Temperature, Internal	O	E					:: Ocean	200 m :: 0-4500 m
		3134	Sea_sfc State	O	E				1/hr	25 km :: Ocean	N/A :: Sfc
		1005	Aerosol XXX	I	E				1/(1-3 day) [few day]	100 km :: G	1 km :: Atmos
		1013	Aerosol Layer Boundary Height	I	E					2-200 km :: G	75 m :: Atmos
		1019	Aerosol Size-distribution	I	E				1/(5-16 day)	15.4 km :: G	Column :: Atmos
		1305	O3 Conc.	I	E				2/day	4 x 4 dg :: G	1-1.5 km :: 10-80 km
		1378	Angular Momentum	I	E					:: G	:: Atmos
		1383	Cloud Height, Base	I	E					25 km :: G	100 mb :: Cloud
		1384	Cloud Height, Base	I	E				1/(6 hr)	1 x 1 dg :: G	100 mb :: Cloud
		1401	Cloud Height, Cirrus	I	E				2/day	50 km :: G	N/A :: Cloud
		1406	Cloud Height, Stratoform	I	E				2/day	50 km :: G	N/A :: Cloud
		1415	Cloud Height, Top	I	E				1/(6 hr)	1 x 1 dg :: G	100 mb :: Cloud
		1416	Cloud Height, Top	I	E				2/day [d,n]	15 x 45 km :: G	N/A :: Cloud
		1463	Heating, Latent	I	E					25 km :: G	10 lv :: Trop
		1464	Heat Flux, Latent	I	E				1/day	100 km :: Ocean	N/A :: Sfc
		1465	Heat Flux, Latent	I	E				1/(3 day)	100 km :: >60 dgLAT	
		1476	Heat Flux, Sensible	I	E				1/day	100 km :: > 60 dgLAT	
		1499	Geopotential Height Gradient	I	E				2/day	4 x 4 dg :: G	1-1.5 km :: Atmos
		1512	PBL Height	I	E					2-200 km :: G	75 m :: Trop
		1527	Cloud Pressure, Top	I	E				2/day	5 km :: G	N/A :: Cloud
		1555	Sea_Ice Roughness	I	E				1/(3 mo)	:: Polar	N/A :: Sfc
		1561	Stratopause Height	I	E				2/day [d,n]	50 km :: G	N/A :: Mid-atmos
		1569	Temperature Profile	I	E					1.8 x .16 dg :: G	3 km :: 20-60 km
		1570	Temperature Profile	I	E				2/day	4 x 4 dg :: G	1-1.5 km :: 10-80 km
		1571	Temperature Profile	I	E				2/day [d,n]	50 km :: G	1 km :: Atmos
		1640	Torque, Friction	I	E					:: G	:: Atmos
		1642	Tropopause Height, Aerosol_located	I	E					200 km :: G	75 m :: Trop
		1658	Wind Velocity, Sea_sfc	I	E					25 km :: Ocean	N/A :: Near_sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
4-D Atmospheric/Ocean/Land Data Assimilation (601)	Bates	1659	Wind Velocity	I E				1/(12 min)	3.1 x 1.8 dg :: G	3 km :: 38-60 km
		1660	Wind Velocity	I E				1/(12 min)	1.8 x 3.1 dg :: G	3 km :: 20-38 km
		1661	Wind Velocity	I E				2/day	100 km :: G	1 km :: Atmos
		1685	Wind Velocity, Geostrophic	I E				2/day	4 x 4 dg :: G	1-1.5 km :: Atmos
		1709	Wind Speed, Sea_sfc	I E				2/day (d,n)	50 km :: Ocean	N/A :: Sfc
		1742	Wind Stress	I E						
		1759	Cloud Drop Phase	I E				1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1777	Cloud Drop Size(Effective Radius)	I E				1/day, 1/mo	1 dg :: G	N/A :: Cloud
		1800	Vegetation Evapotrans, Actual, (AET)	I E				1/day	500 m :: Land	N/A :: Sfc
		1808	H2O Conc	I E				2/day	4 x 4 dg :: G	1-1.5 km :: 10-80 km
		1809	Humidity Profile	I E				2/day (d,n)	50 km :: G	2 km :: Atmos
		1862	Precipitable Water	I E				2/day (d,n)	50 km :: G	N/A :: Trop
		1890	Cloud Ice Content	I E				1/day	10 km :: G	
		1892	Cloud Ice Index	I E				2/day (d,n)	50 km :: G	N/A :: Cloud
		1894	Cloud Liq_water Content	I E				1/(6 hr)	1 x 1 dg :: G	lyr :: 0-30 km
		1904	Cloud Liq_water Content	I E				2/day (d,n)	50 km :: G	N/A :: Cloud
		1949	Precipitation Conc, Ice	I E					10 km :: G	7 m :: Trop
		1954	Precipitation Rate, Rain	I E					10 km :: G	7 m :: Trop
		1958	Precipitation Rate	I E					10 km :: G	1 m :: Sfc
		1966	Precipitation Drop Phase, Sfc	I E					10 km :: G	N/A :: Sfc
		1968	Precipitation Index	I E				2/day (d,n)	50 km :: G	N/A :: Trop
		1970	Precipitation Index, Antecedent	I E				1/day	26-52 km :: Land	N/A :: Sfc
		1989	Vegetation Evapotrans	I E				1/day	500 m :: Land	N/A :: Sfc
		1990	Vegetation Evapotrans	I E						
		1995	Albedo, Land_sfc	I E				1/day	50 km :: Land	N/A :: Sfc
		2069	Cloud Cover, Cirrus	I E				1/day	100 km :: G	0.5 km :: Trop
		2072	Cloud Cover, Cirrus	I E				2/day (d,n)	15 x 45 km :: G	N/A :: Cloud
		2073	Cloud Cover	I E				1/(6 hr)	1 x 1 dg :: G	N/A :: Cloud
		2074	Cloud Cover	I E				1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2112	Land_sfc Emissivity	I E				2/day (d,n)	50 km :: Land	N/A :: Sfc
		2121	Sea_Ice Emissivity	I E				1/day	10 km :: Polar	N/A :: Sfc
		2173	Radiative Flux, LW, Net	I E				2/day (d,n)	50 km :: Ocean	N/A ::
		2174	Radiative Flux, LW, Net	I E				2/day (d,n)	50 km :: G	N/A :: TOA
		2191	Radiative Flux, LW, Up	I E				2/day (d,n)	50 km :: G	N/A :: Cloud
		2304	Cloud Optical Depth	I E				1/day	15 x 45 km :: G	N/A :: Cloud
		2305	Cloud Optical Depth	I E				1/day, 1/mo	1 dg :: G	N/A :: Cloud
		2346	Level-1B Radiance, AIRS	I E						
		2349	Level-1B Radiance, AMSU-A	I E			AL	2/day (d,n)	40 x 40 km :: G	N/A :: N/A
		2351	Level-1B Radiance, MHS	I E			AL	2/day (d,n)	15 x 15 km :: G	N/A :: N/A
		2382	Wind Velocity, LAWS Line-of-sight (Level-1B)	I E						
		2421	Cloud Radiative Forcing	I E				1/wk	500 km :: G	:: Atmos
		2460	Cloud Temperature, Top	I E				2/day (d,n)	15 x 45 km :: G	N/A :: Cloud
		2475	Land_sfc Temperature, Skin	I E				2/day (d,n)	50 km :: Land	N/A :: Sfc
		2489	Sea_Ice Temperature	I E				1/day	10 km :: Polar	N/A :: Sfc
		2508	Sea_sfc Temperature (SST)	I E				1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
		2509	Sea_sfc Temperature (SST)	I E				2/day (d,n)	50 km :: Ocean	N/A :: Sfc
		2538	Land_sfc Temperature-Difference, Day-Night	I E				1/day	50 km :: Land	N/A :: Sfc
		2676	Vegetation Index, Leaf Area, (LAI)	I E				1/mo	60 m :: Land	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
4-D Atmospheric/Ocean/Land Data Assimilation (601)	Bates	2918	Ice_Sheet Cover	I	E				2/day [d.n]	50 km :: Land/Cryo	N/A :: Sfc
		2959	Soil Moisture	I	E				1/(3 day), 1/wk	60-100 m :: Land	N/A :: Sfc
		2960	Soil Moisture	I	E					43 km :: Land	N/A :: Sfc
		3006	Snow Cover	I	E				2/day [d.n]	50 km :: Land	N/A :: Sfc
		3007	Snow Cover	I	E				1/day, 1/wk	10 km :: Land	N/A :: Sfc
		3080	Ocean Water Salinity	I	E				1/(3 day)	100 km :: > 60 dgLAT	:: TOO
		3111	Sea_Level Height, Along-track	I	E					7 km :: Ocean	N/A :: Sfc
		3115	Ocean Water Temperature, Internal	I	E				1/(3 day)	100 km :: > 60 dgLAT	:: lv [?]
		3126	Ocean Wave Height	I	E				1/day	50-75 m :: Ocean	N/A :: Sfc
		3128	Ocean Wave Height, Along-track	I	E					7 km :: Ocean	N/A :: Sfc
		3148	Sea_Ice Cover	I	E				2/day [d.n]	50 km :: Ocean/Cryo	N/A :: Sfc
		3182	Sea_Ice Conc	I	E				1/(3 day)	100 km :: > 60 dgLAT	:: Sfc
		3463	Ocean Wave Power Spectrum, 2-D	I	E					:: Ocean	N/A :: Sfc
		1	wind velocity	I	N	NSCAT	ADEOS	BL			
		3	humidity	I	N	SSM/I	DMSP	BL			
		4	precipitation	I	N	SSM/I	DMSP	BL			
		5	surface wind speed	I	N	SSM/I	DMSP	BL			
		8	wind velocity	I	N	SCATT	ERS-1	BL			
		9	sea level data	I	N	ALT	ERS-1, 2	BL			
		10	surface features	I	N	SAR	ERS-1	BL			
		18	ocean color / chlorophyll data	I	N	CZCS	Nimbus-7	BL			
		19	atmospheric chemistry data	I	N	LMDS	Nimbus-7	BL			
		20	aerosols	I	N	SAM II	Nimbus-7	BL			
		22	geophysical data	I	N	SMMR	Nimbus-7	BL			
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		25	radiance	I	N	AVHRR-GAC	NOAA	BL			
		27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL			
		28	sounding data	I	N	TOVS	NOAA	BL			
		30	geophysical data	I	N	SASS-1	SEASAT	BL			
		31	geophysical data	I	N			BL			
		34	geophysical data	I	N	SSM/I	DMSP	BL			
		35	sea level and other data	I	N	ALT	TOPEX	BL	1/(10 day)	7 km :: G	
		36	precipitation data	I	N		TRMM	BL			
		39	climatology (T, H, P) data	I	N		in situ	BL			
		45	precipitation	I	N		in situ	BL			
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		47	geophysical data	I	N		in situ (ship)	BL			
		48	geophysical data	I	N		in situ (ship)	BL			
		49	sea surface temperature (SST)	I	N			BL			
		50	surface air pressure	I	N			BL			
		51	surface wind speed	I	N		in situ	PL			
		53	wind speed	I	N		in situ (buoy)	BL			
		67	geophysical data	I	N		in situ (newindsonde)	BL			
		83	geophysical data	I	N		COARE	BL			
		154	latent heating profiles	I	N		TRMM				
		155	cloud motion winds	I	N		operational satellites				
		156	atmospheric chemistry data	I	N		in situ (rocksonde)				
		157	temperature analysis	I	N						
		158	geopotential height analysis	I	N		model				

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
4-D Atmospheric/Ocean/Land Data Assimilation (601)	Baies	159	wind analysis	I N						
		160	moisture analysis	I N						
		161	sea level pressure analysis	I N						
		162	weather forecasts (6hr, 12hr, 18hr, 24hr)	I N						
		163	sea soundings	I N		in situ				
		223	geophysical data	I N		in situ (ship)				
		331	O3 data	I N		TRMM	BL			
		744	humidity profiles	I N		in situ (radiosonde)	BL			
		745	column water vapor	I N		in situ (radiosonde)	BL			
		746	sea surface temperature (SST)	I N		in situ (buoy)	BL			
		1134	CO Flux	O E				1/day	20 km :: Ocean	N/A :: Sfc
		1135	CO Flux	O E				1/day	30 m :: Ocean/L	N/A :: Sfc
		1148	CO2 Flux	O E				1/day	30 m :: Ocean/L	N/A :: TOO
		1149	CO2 Flux	O E				1/day	20 km :: Ocean	N/A :: TOO
Geochemical Fluxes at Ocean/Atmosphere (598)	Brewer	1153	COF2 Conc	O E				1/day	:: L	:: PBL
		1154	CO3 Conc	O E				1/day	:: G	:: PBL
		1156	CS2 Conc	O E				1/day	:: G	:: PBL
		1157	CS2 Conc	O E				1/day	:: L	:: PBL
		1159	DMS Conc	O E				1/day	:: L	:: PBL
		1160	DMS Conc	O E				1/day	:: G	:: PBL
		1161	DMS Flux	O E				1/day	:: G	:: PBL
		1162	DMS Flux	O E				1/day	20 km :: Ocean	N/A :: Sfc
		1173	H2S Conc	O E				1/day	30 m :: Ocean/L	N/A :: Sfc
		1174	H2S Conc	O E				1/day	:: L	:: PBL
		1367	SO2 Conc	O E				1/day	:: G	:: PBL
		1368	SO2 Conc	O E				1/day	:: L	:: PBL
		2595	Phytoplankton Type	O E				1/day	:: G	:: PBL
		2596	Phytoplankton Type	O E				1/day	30 m :: Ocean/L	N/A :: TOO
		3073	Oil Slick Cover	O E				1/day	20 km :: Ocean	N/A :: TOO
		3074	Oil Slick Cover	O E				1/day	20 km :: Ocean	N/A :: TOO
		3088	Trace Gas Transfer Coef	O E				1/day	30 m :: Ocean/L	N/A :: TOO
		1	wind velocity	I N	NSCAT	ADEOS	BL	1/day, 1/seas	25 km :: Ocean/G.I.	N/A :: TOO
		2	geophysical data	I N	AVIRIS	in situ (aircraft)	BL			
		7	geophysical data	I N		ERS-1	BL			
		15	geophysical data	I N		JERS-1	BL			
		32	ocean color data	I N	SeaWiFS	Seastar	BL			
		71	geophysical data	I N		WOCE	BL			
		101	geophysical data	I N		JGOFS	BL			
		219	Levitus climatology database	I N						
		1467	Heat Flux, Latent	I N				1/day, 1/seas	:: Ocean	N/A :: Sfc
		1477	Heat Flux, Sensible	I N				1/day, 1/seas	:: Ocean	N/A :: Sfc
		1492	Radiative Flux, SW	I N				1/day, 1/seas	:: Ocean	
		1493	Radiative Flux, SW	I N				1/day, 1/seas	:: Ocean/L	
		1710	Wind Speed, Sea_sfc	I N				1/day, 1/seas	25 km :: Ocean	N/A :: Sfc
		1928	Precipitation Amount	I N				1/day, 1/seas	:: Ocean/L	N/A :: Sfc
		1929	Precipitation Amount	I N				1/day, 1/seas	:: Ocean	N/A :: Sfc
		2097	Level-1B Backscatter, STIKSCAT	I N				1/day, 1/seas	25 km :: Ocean	N/A :: Sfc
		2255	Radiative Flux, LW	I N				1/day, 1/seas	:: Ocean/L	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Geochemical Fluxes at Ocean/Atmosphere (598)	Brewer	2256	Radiative Flux, LW	I	N				1/day, 1/secs	:: Ocean	
		2275	Irradiance, UV Solar	I	N				1/day, 1/secs	30 m :: Ocean/L	
		2276	Irradiance, UV Solar	I	N				1/day, 1/secs	20 km :: Ocean	
		2279	Irradiance, Visible Solar	I	N				1/day, 1/secs	20 km :: Ocean	
		2280	Irradiance, Visible Solar	I	N				1/day, 1/secs	30 m :: Ocean/L	
		2414	Level-2 Radiance, Water-leaving	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: TOO
		2415	Level-2 Radiance, Water-leaving	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: TOO
		2426	Land_sfc Reflectance, Directional	I	N				1/day, 1/secs	1.7 km :: Ocean	N/A :: Sfc
		2427	Land_sfc Reflectance, Directional	I	N				1/day, 1/secs	22 km :: Ocean/L	N/A :: Sfc
		2510	Sea_sfc Temperature (SST)	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: Sfc
		2511	Sea_sfc Temperature (SST)	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: Sfc
		2561	Organic Carbon Conc, Dissolved	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: TOO
		2562	Organic Carbon Conc, Dissolved	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: TOO
		2599	Ocean Productivity, Primary	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: TOO
		2600	Ocean Productivity, Primary	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: TOO
		3106	Sea_Level Height	I	N				1/day, 1/secs	7 km :: Ocean	N/A :: Sfc
		3149	Sea_Ice Conc	I	N				1/day, 1/secs	10 km :: Ocean/Cryo	N/A :: Sfc
		3201	Ocean Water Attenuation Coef, Diffuse	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: Sfc
		3202	Ocean Water Attenuation Coef, Diffuse	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: Sfc
		3213	Gelbstoff Absorption Coef@300nm	I	N				1/day, 1/secs	30 m :: Ocean/L	N/A :: TOO
		3214	Gelbstoff Absorption Coef@300nm	I	N				1/day, 1/secs	20 km :: Ocean	N/A :: TOO
Northern Biosphere Observation and Modeling (596)	Chlbr	2547	C Budget, Global	O	E				1/yr	1 km :: Land/R	N/A :: Sfc
		2661	Vegetation Growing_Season Duration	O	E				1/yr	1 km :: Land/R	N/A :: Sfc
		2694	Vegetation Phytomass	O	E				1/yr	1 km :: Land/R	N/A :: Sfc
		2706	Vegetation Index	O	E				1/(10 day)	1 km :: Land/R	N/A :: Sfc
		2713	Vegetation Change	O	E				1/yr	1 km :: Land/R	N/A :: Sfc
		2727	Vegetation Succession	O	E				1/(2 yr)	1 km :: Land/R	N/A :: Sfc
		2737	Vegetation Type	O	E				1/yr	1 km :: Land/R	N/A :: Sfc
		2102	Level-1B Backscatter Coef, SAR_EOS	I	E				1/(3 mo)	25 m :: Canada/R	N/A :: Sfc
		2338	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.5 km :: G	N/A :: N/A
		2339	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2340	Level-1B Radiance, MODIS>3um	I	E	MODIS	AM,PM	AL	1/day	1 km :: G	N/A :: N/A
		2370	Level-1B Radiance, HIRIS	I	E	HIRIS	AM2	AL			
		2392	Level-1B Radiance, MODIS<3um	I	E	MODIS	AM,PM	AL	1/day	0.25 km :: G	N/A :: N/A
		2437	Land_sfc Reflectance Factor, MODIS	I	E				1/(3 mo)	0.25 km :: Canada/R	N/A :: Atmos
		2438	Land_sfc Reflectance Factor, MODIS-T	I	E				1/(3 mo)	0.5 km :: Canada/R	
		3487	Land_sfc Emissivity, LW (8-12u)	I	E				10 day	1.25 deg :: Canada/R	N/A :: Sfc
		3488	Precipitation Amount	I	E				1 day	500m :: Canada/R	N/A :: Sfc
		3489	Precipitation Amount, Snow	I	E				1 wk	1 km :: Canada/R	N/A :: Sfc
		3490	Radiative Flux	I	E				1 wk	1 km^2 ::	N/A :: Sfc
		3491	Snow Water Equivalent	I	E				1 wk	1 km :: Canada/R	N/A :: Sfc
		3492	Soil Hydraulic Properties	I	E				once	1 km :: Canada/R	N/A :: Sfc
		3493	Soil Moisture	I	E				once	1 km :: Canada/R	N/A :: Sfc
		3494	Soil Spectral-characteristics	I	E				once	250-1000 m :: Canada/R	N/A :: Sfc
		3495	Topographic Elevation, Land_sfc	I	E				once	30 m :: Canada/R	10 m :: Sfc
		3496	Vegetation Reflectance, Bi-directional,	I	E				1 wk (for 1 yr)	:: Canada/R	N/A :: Sfc
		3497	Vegetation Evapotrans	I	E				1 day, 1 wk	500 m :: Canada/R	N/A :: Sfc
		3498	PAR, Intercepted, Vegetation, (IPAR)	I	E				1 day	250-1000 m :: Canada/R	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Northern Biosphere Observation and Modeling (596)	Chihlar	3499	Vegetation Index, Leaf Area, (LAI)	I	E				1 wk	1 km :: Canada/R	N/A :: Sfc
		3500	Vegetation Reflectance Factor	I	E				1 day	250-1000 m :: Canada/R	N/A :: Sfc
		3501	Vegetation Moisture, Root-zone	I	E				1 wk (in grow. seas)	1 km :: Canada/R	N/A :: Sub_sfc
		3502	Vegetation Structure	I	E					1 km :: Canada/R	N/A :: Sfc
		3503	Vegetation Temperature	I	E				1 day	250-1000 m :: Canada/R	N/A :: Sfc
		3504	Vegetation Type	I	E				once	100 m :: Canada/R	N/A :: Sfc
		16	scene radiances	I	N	TM	LandSat	BL			
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day (d.n)	1.0 km :: G	N/A :: Atmos :: Sfc
		169	backscatter coefficient	I	N	Weather radar	in situ			30 m :: Land/R	
		170	backscatter coefficient	I	N	SAR	ERS-1		1/3 mo	25 m :: Canada/R	N/A :: Sfc
		171	backscatter coefficient	I	N	SAR	JERS-1		1/3 mo	25 m :: Canada/R	N/A :: Sfc
		172	backscatter coefficient	I	N	SAR	in situ (aircraft)		1/6 mo	10 m :: Canada/R	N/A :: Sfc
		173	backscatter coefficient	I	N	SAR	RADARSAT		1/3 mo	10 m :: Canada/R	N/A :: Sfc
		174	backscatter coefficient	I	N	SAR			1/6 mo	25 m :: Canada/R	N/A :: Sfc
		176	reflectance factor	I	N	AMRIR	SIR-C		1/day	0.5 km :: Canada/R	N/A :: Atmos
		208	geophysical data (low resolution)	I	N	SAR	NOAA			low resolution	
		3521	Cloud Cover	O	E			PL		0.5-1 dg :: G	
		3522	Cloud Temperature, Top	O	E			PL		0.5-1 dg :: G	
		3523	Cloud Pressure	O	E			PL		0.5-1 dg :: G	
		3524	Cloud Phase	O	E			PL		0.5-1 dg :: G	
		3525	Albedo, Cloud	O	E			PL		0.5-1 dg :: G	
NCAR Modeling on Global and Regional Scales (622)	Dickinson	3526	Cloud Optical Depth	O	E			PL		0.5-1 dg :: G	
		3527	Cloud Liq. Water Content	O	E			PL		0.5-1 dg :: G	
		3528	Cloud Drop Size	O	E			PL		0.5-1 dg :: G	
		3529	Vegetation Reflectance, Bi-directional,	O	E			PL			
		3530	Heat Flux, Sensible	O	E			PL	1/mo	1 x 1 dg ::	
		3531	Heat Flux, Latent	O	E			PL	1/mo	1 x 1 dg ::	
		3532	Radiative Flux, Solar	O	E			PL	1/mo	1 x 1 dg ::	
		3533	Radiative Flux, LW	O	E			PL	1/mo	1 x 1 dg ::	
		3534	Heat Transport	O	E			PL	1/mo	1 x 1 dg ::	
		3535	Moisture Transport	O	E			PL	1/mo	1 x 1 dg ::	
		3536	Momentum Transport	O	E			PL	1/mo	1 x 1 dg ::	
		3537	Energy Flux, Net	O	E			PL	1/mo	1 x 1 dg ::	
		3325	CO Conc	I	E						
		3326	Heating, Diabatic,	I	E					<0.5-1 deg :: G	
		3327	Heat Flux, Latent	I	E					<0.5-1 deg :: Ocean	
		3328	Heat Flux, Sensible	I	E					<0.5-1 deg :: Ocean	
		3329	PBL Height	I	E						
		3330	Cloud Pressure, Top	I	E					<0.5-1 deg :: G	
		3331	Soil Roughness	I	E					High_res :: Land	
		3332	Soil Roughness	I	E					Low_res :: Land	
		3333	Temperature	I	E					<0.5-1 deg :: G	
		3334	Temperature, Near_sfc	I	E					<0.5-1 deg :: G	
		3335	Wind Velocity	I	E					<0.5-1 deg :: G	
		3336	Wind Velocity, Divergent Horizontal	I	E					<0.5-1 deg :: G	
		3337	Wind Velocity, Rotational Horizontal	I	E					<0.5-1 deg :: G	
		3338	Wind Velocity, Sea_sfc	I	E					<0.5-1 deg :: G	
		3339	Wind Speed, Land_sfc	I	E					<0.5-1 deg :: Ocean	
				I	E					<0.5-1 deg :: Land	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
NCAR Modeling on Global and Regional Scales (622)	Dickinson	3340	Lightning Intensity	I E					<0.5-1 deg :: G	
		3341	Lightning Rate	I E					<0.5-1 deg :: G	
		3342	Cloud Height, Base	I E						
		3343	Cloud Cover	I E					High_res :: G	
		3344	Cloud Cover	I E					Med_res :: G	
		3345	Cloud Cover	I E					Low_res :: G	
		3346	Cloud Drop Phase	I E					<0.5-1 deg :: G	
		3347	Cloud Drop Size	I E					<0.5-1 deg :: G	
		3348	Cloud Drop Size-distribution	I E					<0.5-1 deg :: G	
		3349	Cloud Height, Top	I E					<0.5-1 deg :: G	
		3350	Evaporation, Land_sfc	I E					<0.5-1 deg :: G	
		3351	Vegetation Evapotrans	I E					High_res :: Land	
		3352	Vegetation Evapotrans	I E					Med_res :: Land	
		3353	Humidity Profile	I E					<0.5-1 deg :: G	
		3354	Humidity, Near_sfc	I E					<0.5-1 deg :: G	N/A :: Near_sfc
		3355	Precipitable Water	I E					<0.5-1 deg :: G	
		3356	Moisture Flux, Horizontal,	I E					<0.5-1 deg :: G	N/A :: Trop
		3357	Cloud Liq-water Content	I E					<0.5-1 deg :: G	
		3358	Cloud Liq-water Content	I E					<0.5-1 deg :: G	
		3359	Precipitation Rate, Rain	I E					<0.5-1 deg :: G	
		3360	Precipitation Rate, Snow	I E					<0.5-1 deg :: G	
		3361	Albedo, Cloud	I E					<0.5-1 deg :: G	
		3362	Albedo, Sea_Ice	I E					<0.5-1 deg :: Ocean/Cryo	
		3363	Albedo, Land_sfc	I E					<0.5-1 deg :: G	
		3364	Albedo, Snow	I E					High_res :: Land	
		3365	Albedo, TOA	I E					<0.5-1 deg :: G	
		3366	Albedo, Vegetation	I E					High_res :: Land	
		3367	Albedo, Vegetation	I E					High_res :: Land	
		3368	Aerosol Backscatter	I E					<0.5-1 deg :: G	
		3369	Land_sfc Reflectance, Bi-directional, (BRDF)	I E					<0.5-1 deg :: G	
		3370	Soil Reflectance, Bi-directional, (BRDF)	I E					<0.5-1 deg :: Land	
		3371	Vegetation Reflectance, Bi-directional,	I E					<0.5-1 deg :: Land	
		3372	Cloud Emissivity	I E					<0.5-1 deg :: G	
		3373	Land_sfc Emissivity	I E					<0.5-1 deg :: Land	
		3374	Aerosol Extinction	I E					<0.5-1 deg :: G	
		3375	Radiative Flux, LW, Down	I E					<0.5-1 deg :: G	N/A :: Sfc ?
		3376	Radiative Flux, LW, Net	I E					<0.5-1 deg :: G	N/A :: Sfc ?
		3377	Radiative Flux, LW, TOA	I E					<0.5-1 deg :: G	N/A :: TOA
		3378	Radiative Flux, LW, Up	I E					<0.5-1 deg :: G	N/A :: Sfc ?
		3379	Radiative Flux, SW, Net	I E					<0.5-1 deg :: G	N/A :: Sfc
		3380	Radiative Flux, SW, TOA	I E					<0.5-1 deg :: G	N/A :: Sfc
		3381	Cloud Optical Depth, LW	I E					<0.5-1 deg :: G	
		3382	Cloud Optical Depth, SW	I E					<0.5-1 deg :: G	
		3383	Optical Depth, Total	I E					<0.5-1 deg :: G	
		3384	Irradiance, Incident, Sfc	I E					<0.5-1 deg :: G	
		3385	Radiation Budget	I E					<0.5-1 deg :: G	
		3386	Cloud Temperature, Emission	I E					<0.5-1 deg :: G	
		3387	Cloud Temperature, Top	I E					<0.5-1 deg :: G	
		3388	Ice_Sheet Temperature	I E					<0.5-1 deg :: Land/Cryo	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
NCAR Modeling on Global and Regional Scales (622)	Dickinson	3389	Land_sfc Temperature	I	E					High_res :: Land	
		3390	Land_sfc Temperature	I	E					Low_res :: Land	
		3391	Land_sfc Temperature	I	E					Med_res :: Land	
		3392	Sea_sfc Temperature (SST)	I	E					<0.5-1 deg :: Ocean	
		3393	Sea_sfc Temperature (SST)	I	E					<0.5-1 deg :: Ocean	
		3394	Vegetation Temperature	I	E					<0.5-1 deg :: Land	
		3395	Land_sfc Temperature-Difference, Day-Night	I	E					<0.5-1 deg :: G	
		3396	Cloud Transmissivity	I	E					<0.5-1 deg :: G	
		3397	Vegetation Biomass, Green	I	E					<0.5-1 deg :: Land	
		3398	Fire Extent	I	E					<0.5-1 deg :: Land	
		3399	Vegetation Moisture, Root-zone	I	E					<0.5-1 deg :: Land	
		3400	Vegetation Extent	I	E					High_res :: Land	
		3401	Vegetation Extent	I	E					Med-low_res :: Land	
		3402	Vegetation Height	I	E					Med-low_res :: Land	
		3403	Vegetation Rooting Depth	I	E					<0.5-1 deg :: Land	
		3404	Vegetation Roughness	I	E					Med-low_res :: Land	
		3405	Vegetation Type	I	E					<0.5-1 deg :: Land	
		3406	Vegetation Index, Leaf Area, (LAI)	I	E					Low_res :: Land	
		3407	Vegetation Water Potential	I	E					Low_res :: Land	
		3408	Wetlands Extent	I	E					Low_res :: Land	
		3409	Soil Extent	I	E					Low_res :: Land	
		3410	Topographic Elevation, Land_sfc	I	E					Low_res :: Land	
		3411	Soil Moisture	I	E					Low_res :: Land	
		3412	Soil Moisture	I	E					Med_res :: Land	
		3413	Soil Moisture	I	E					High_res :: Land	
		3414	Snow Depth	I	E					Med_res :: Land	
		3415	Snow Extent	I	E					Low_res :: Land	
		3416	Snow Extent	I	E					Med_res :: Land	
		3417	Sea_Ice Cover	I	E					Med_res :: Land	
		3418	Sea_Ice Thickness	I	E					<0.5-1 deg :: Ocean/Cryo	
		3419	Electric Conductivity	I	E					<0.5-1 deg :: G	
		3420	Electric Field Strength, DC	I	E					<0.5-1 deg :: G	
		3421	X-Ray Images	I	E					<0.5-1 deg :: G	
		3	humidity	I	N	SSM/I	DMSP	BL			
		6	earth radiation budget	I	N	ERBE	NOAA	BL			
		11	geophysical data	I	N	IR instrument	GMS	BL			
		34	geophysical data	I	N	SSM/I	DMSP	BL			
		36	precipitation data	I	N		TRMM	BL			
		39	climatology (T, H, P) data	I	N		in situ	BL			
		44	model output/analysis	I	N			BL			
		157	temperature analysis	I	N						
		159	wind analysis	I	N						
		160	moisture analysis	I	N						
		161	sea level pressure analysis	I	N						
		162	weather forecasts (6hr,12hr,18hr,24hr)	I	N		in situ				
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d.n]	1.0 km :: G	N/A :: Atmos
		188	radiance	I	N	AVHRR-GAC	NOAA	AL	2/day [d.n]	4.0 km :: G	N/A :: Atmos
		190	liquid water content	I	N	SSM/I	DMSP	BL	2/day	2 - 5 dg :: Ocean	
		282	upper air analyses	I	N			BL			



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
NCAR Modeling on Global and Regional Scales (622)	Dickinson	481	radiance	I	N	TOVS	NOAA				
		482	assimilated radiation balance data	I	N		model				
Hydrology in Snow Covered Drainage Basins (592)	Dozier	2553	Land_ufc Biochemical Analysis	O	E				1/day	50 m :: L	
		2811	Land Geochemical Analysis	O	E				1/day	50 m :: L	
		2989	Runoff	O	E				1/day	50 m :: L	
		3002	Snow Chemistry	O	E				1/wk, 1/mo	50 m :: Snow/L	
		3041	Snow Melt Area, Distributed	O	E				1/day	50 m :: L	
		3042	Snow Melt Chemistry	O	E				1/wk, 1/mo	50 m :: L	
		3070	Runoff_Chemistry	O	E				1/day	50 m :: L	
		2020	Albedo, Spectral, Land_ufc	I	E				1/wk, 1/mo	50 m :: Land/L	
		2131	Heat Flux, Sfc	I	E				1/wk	50 m :: Land/L	N/A :: Sfc
		2500	Snow Temperature, Sfc	I	E				1/wk	500 m :: Snow/L	
		2767	Snow Contaminant Conc	I	E				1/wk, 1/mo	50 m :: Snow/L	
		2825	Topographic Elevation, Land_ufc	I	E					20 m :: Land/L	:: Sfc
		3000	Snow Water Equivalent	I	E				1/wk, 1/mo	50 m :: Land/L	N/A :: Sfc
		3008	Snow Cover	I	E				1/wk, 1/mo	50 x 50 m :: Land/L	N/A :: Sfc
		3028	Snow Cover, Wet	I	E				1/wk, 1/mo	50 m :: Snow/L	
		3037	Snow Grain Size	I	E				1/wk, 1/mo	50 m :: Snow/L	
		3039	Snow Liq-water Content	I	E				1/wk, 1/mo	50 m :: Snow/L	
		383	surface elevation	I	N		SPOT	BL	N/A	20 m :: Land/L	
		384	surface elevation	I	N		in situ	BL	N/A	20 m :: Land/L	
		385	surface energy fluxes	I	N	AVHRR	NOAA	BL	1 wk	100 m :: Land/L	
		386	snow surface temperature	I	N	AVHRR	NOAA	BL	1 wk	500 m :: Land/L	
		387	snow surface temperature	I	N		Landsat	BL	1 wk	500 m :: Land/L	
		388	snow liquid water content	I	N	SAR	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		389	snow liquid water content	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		390	snow liquid water content	I	N	SIR-C	Shuttle	BL	1 wk - 1 mo	50 m :: Land/L	
		391	wet snow area	I	N	SAR	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		392	wet snow area	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		393	wet snow area	I	N	SIR-C	Shuttle	BL	1 wk - 1 mo	50 m :: Land/L	
		394	snow contaminants	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		395	snow contaminants	I	N		Landsat	BL	1 wk - 1 mo	50 m :: Land/L	
		396	snow contaminants	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		397	snow grain size	I	N		Landsat	BL	1 wk - 1 mo	50 m :: Land/L	
		398	snow grain size	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		399	spectral albedo	I	N		Landsat	BL	1 wk - 1 mo	50 m :: Land/L	
		400	spectral albedo	I	N		Landsat	BL	1 wk - 1 mo	50 m :: Land/L	
		401	spectral albedo	I	N		SPOT	BL	1 wk - 1 mo	50 m :: Land/L	
		402	snow covered area	I	N	AVIRIS	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		403	snow covered area	I	N		Landsat	BL	1 wk - 1 mo	50 m :: Land/L	
		404	snow covered area	I	N		SPOT	BL	1 wk - 1 mo	50 m :: Land/L	
		405	snow-water equivalence	I	N	SAR	in situ (aircraft)	BL	1 wk - 1 mo	50 m :: Land/L	
		406	snow-water equivalence	I	N	DLR Radar	in situ	BL	1 wk - 1 mo	50 m :: Land/L	
		407	snow-water equivalence	I	N	SIR-C	Shuttle	BL	1 wk - 1 mo	50 m :: Land/L	
		408	snow-water equivalence	I	N	SAR	ERS-1	BL	1 wk - 1 mo	50 m :: Land/L	
		409	snow-water equivalence	I	N	SAR	RADARSAT	BL	1 wk - 1 mo	50 m :: Land/L	
		410	snow-water equivalence	I	N	SSM/I	DMSP	BL	1 wk - 1 mo	50 m :: Land/L	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Interactions in the Earth's Atmosphere (607)	Grose	1068	CH3Cl Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1080	CH4 Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1090	CH4 Budget	O	E				1/mo	-6 x 6 dg :: G	
		1112	ClOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1113	ClOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1114	ClOy Conc	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1185	HCl Conc	O	E				1/secs	-6 x 6 dg :: G	24 vl :: 0-90 km
		1224	HOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1225	HOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1226	HOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1234	N2O Conc	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1235	N2O Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1244	N2O Budget	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1287	NOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1288	NOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1289	NOy Conc	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1291	NOy Budget	O	E				1/mo	-6 x 6 dg :: G	
		1292	NOy Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1330	O3 Budget	O	E				1/mo	-6 x 6 dg :: G	
		1361	Ox Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1362	Ox Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1363	Ox Conc	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1371	Chemistry Diagnostics, Seasonal	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1375	Trace Gas Conc, Non-diurnally-varying	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1515	Planetary Wave Structure	O	E				1/day	-6 x 6 dg :: G	24 vl :: 0-90 km
		1595	Temperature Profile	O	E				1/day	-6 x 6 dg :: G	24 vl :: 0-90 km
		1596	Temperature Profile	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1597	Temperature Profile	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1645	Vorticity, Potential	O	E				1/day	-6 x 6 dg :: G	1 vl :: 0-30 km
		1676	Wind Velocity	O	E				48/day	-6 x 6 dg :: G	[24 vl] :: 0-90 km
		1677	Wind Velocity	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1755	Trace Gas Transport Diagnostics	O	E				1/mo	-6 x 6 dg :: G	24 vl :: 0-90 km
		1832	H2O Conc	O	E				48/day [for 10 day]	-6 x 6 dg :: G	24 vl :: 0-90 km
		1845	Moisture Budget	O	E				1/mo	-6 x 6 dg :: G	
		1006	Aerosol Conc	I	E				2/day	15 x 4 dg :: G	2 km :: Strat
		1026	BrO Conc	I	E				1/wk	30 x 4 dg :: G	3 km :: Strat
		1042	CFC-12(CF2Cl2) Conc	I	E				1/wk	30 x 4 dg :: G	3 km :: Strat
		1050	CFC-11(CFCl3) Conc	I	E				1/wk	30 x 4 dg :: G	3 km :: Strat
		1065	CH3Cl Conc	I	E				1/wk	30 x 4 dg :: G	3 km :: Strat
		1074	CH4 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-atmos
		1103	ClO Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-atmos
		1108	ClONO2 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Strat
		1116	CO Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-atmos
		1138	CO2 Conc	I	E				1/mo	ZM :: G	10 km :: Mid-atmos
		1166	H2O2 Conc	I	E				2/day	30 x 10 dg :: G	3 km :: Strat
		1176	HBr Conc	I	E				1/day	30 x 4 dg :: G	3 km :: Strat
		1182	HCl Conc	I	E				1/day	30 x 4 dg :: G	3 km :: Mid-atmos
		1193	HF Conc	I	E				1/day	30 x 4 dg :: G	3 km :: Strat
		1198	HNO3 Conc	I	E				2/day	30 x 10 dg :: G	3 km :: Mid-atmos

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Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Interactions in the Earth's Atmosphere (602)	Grose	1207	HIN04 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1212	H02 Conc	I	E				2/day	30 x 10 dg :: G	3 km :: Mid-Amos
		1218	H0C1 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Strat
		1229	N20 Conc	I	E				1/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1250	N205 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1262	NO Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1269	NO2 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1279	NO3 Conc	I	E				1/day [n]	30 x 4 dg :: G	3 km :: Mid-Amos
		1294	O(3P) Conc	I	E				1/wk	30 x 4 dg :: G	3 km :: Mid-Amos
		1306	O3 Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1349	OCIO Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Strat
		1355	OH Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Mid-Amos
		1516	Pressure	I	E				2/day	15 x 4 dg :: G	3 km :: Mid-Amos
		1572	Temperature Profile	I	E				2/day	15 x 4 dg :: G	2 km :: Mid-Amos
		1662	Wind Velocity	I	E				2/day	15 x 4 dg :: G	2 km :: Mid-Amos
		1811	H2O Conc	I	E				2/day	30 x 4 dg :: G	3 km :: Trop/meso
		2271	Irradiance, Solar	I	E				2/day	15 x 4 dg :: G	:: TOA
		3307	Cloud XXX, PSC	I	E				2/day	15 x 4 dg :: G	2 km :: Strat
		411	wind velocity profile	I	N		in situ (rocketsonde)	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		412	wind velocity profile	I	N		in situ (balloon)	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		413	wind velocity profile	I	N		in situ	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		414	temperature profile	I	N		in situ (balloon)	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		415	temperature profile	I	N		Lidar	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		416	solar irradiance	I	N		SSBUV	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Amos
		417	O (3P)	I	N		in situ (rocketsonde)	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Amos
		418	O (3P)	I	N		in situ (balloon)	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Amos
		419	O3	I	N		SSBUV	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		420	O3	I	N	ground microwave	in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		421	O3	I	N	TOMS	Meteor-3	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		422	O3	I	N		Dobson	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		423	O3	I	N		in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		424	O3	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		425	NO	I	N	SBUV, SBUV/2	NOAA	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		426	NO	I	N		in situ (rocketsonde)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		427	NO	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		428	NO	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		429	NO2	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		430	NO2	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		431	NO2	I	N	ground absorption	in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		432	N2O5	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		433	N2O5	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		434	N2O	I	N		in situ	BL	daily	30 x 4 dg :: G	3 km :: Mid-Amos
		435	N2O	I	N		in situ (aircraft)	BL	daily	30 x 4 dg :: G	3 km :: Mid-Amos
		436	N2O	I	N	ATMOS	Shuttle	BL	daily	30 x 4 dg :: G	3 km :: Mid-Amos
		437	HNO3	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		438	HNO3	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		439	HNO3	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Amos
		440	HNO4	I	N	ATMOS	Shuttle	BL	12 hr	30 x 10 dg :: G	3 km :: Mid-Amos
		441	CO2	I	N		in situ	BL	1 mo	zonal mean :: G	5 km :: Mid-Amos

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Interactions in the Earth's Atmosphere (602)	Grose	442	CO2	I	N	ATMOS	Shuttle	BL	1 mo	zonal mean :: G	5 km :: Mid-Atmos
		443	CH4	I	N		in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		444	CH4	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		445	CO	I	N	ground microwave	in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		446	CO	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		447	CO	I	N		in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		448	H2O	I	N	ground microwave	in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		449	H2O	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		450	H2O	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		451	H2O	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		452	H2O	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		453	H2O2	I	N		in situ (balloon)	BL	12 hr	30 x 10 dg :: G	3 km :: Mid-Atmos
		454	OH	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		455	OH	I	N		in situ (rocksonde)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		456	HF	I	N	HALOE	UARS	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		457	HF	I	N		in situ (balloon)	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		458	HCl	I	N	HALOE	UARS	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		459	HCl	I	N		in situ (balloon)	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		460	ClO	I	N	ground microwave	in situ	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		461	ClO	I	N	MLS	UARS	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		462	ClO	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		463	OCIO	I	N	ground absorption	in situ	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		464	OCIO	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		465	ClONO2	I	N	CLAES	UARS	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		466	ClONO2	I	N	ATMOS	Shuttle	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		467	ClONO2	I	N		in situ (aircraft)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		468	ClONO2	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		469	CFCs (CFC13, CF2Cl2)	I	N		in situ (aircraft)	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos
		470	CFCs (CFC13, CF2Cl2)	I	N		in situ (balloon)	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos
		471	CH3Cl	I	N		in situ (balloon)	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos
		472	CH3Cl	I	N	ATMOS	Shuttle	BL	1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos
		473	HOCl	I	N		in situ (balloon)	BL	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos
		474	NO3	I	N	ground absorption	in situ	BL	at night	30 x 4 dg :: G	3 km :: Mid-Atmos
		475	NO3	I	N		in situ (balloon)	BL	at night	30 x 4 dg :: G	3 km :: Mid-Atmos
		476	IBr	I	N		in situ (balloon)	BL	daily	30 x 4 dg :: G	3 km :: Mid-Atmos
		477	PSC / Aerosols	I	N	Lidar	in situ	BL	12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos
Carbon, Energy and Water Cycle Variability (603)	Hansen	2135	Heat Flux, Feedback,	O	E				1/wk	500 km :: G	:: Atmos
		2422	Cloud Radiative Forcing	O	E				1/wk	500 km :: G	:: Atmos
		2545	Climatology Diagnostic Data	O	E				1/wk	500 km :: G	:: Atmos
		2548	C Flux, Global	O	E				1/wk	500 km ::	
		2554	C-Cycle Diagnostic Data	O	E				1/wk	500 km :: G	:: Trop
		1001	Aerosol Optical Depth	I	E				1/wk	500 km :: G	:: Trop
		1057	CFC-XXX Conc	I	E				1/wk	500 km :: G	:: Trop
		1075	CH4 Conc	I	E				1/wk	500 km :: Wetlands	:: Trop
		1076	CH4 Conc	I	E				1/wk	500 km :: G	:: Trop
		1117	CO Conc	I	E				1/wk	500 km ::	:: Trop
		1139	CO2 Conc	I	E				1/wk	500 km :: G	:: Trop
		1230	N2O Conc	I	E				1/wk	500 km :: G	:: Trop

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Carbon, Energy and Water Cycle Variability (603)	Hansen	1307	O3 Conc	I E				1/wk	500 km :: G	:: Atmos
		1372	Industrial Emissions Conc	I E				1/wk	500 km :: G	:: Trop
		1399	Cloud Height	I E				1/wk	500 km :: G	:: Cloud
		1573	Temperature Profile	I E				1/wk	500 km :: G	:: Strat
		1574	Temperature Profile	I E				1/wk	500 km :: G	:: Trop
		1629	Temperature, Near_sfc	I E				1/wk	500 km :: Land	:: Sfc
		1630	Temperature, Near_sfc	I E				1/wk	500 km :: Ocean	:: Sfc
		1663	Wind Velocity, Sea_sfc	I E				1/wk	500 km :: Ocean	:: Sfc
		1812	Humidity Profile	I E				1/wk	500 km :: G	:: Atmos
		1813	Humidity Profile	I E				1/wk	500 km :: G	:: Trop
		1864	H2O Conc, Stratospheric	I E				1/wk	500 km :: G	Column :: Strat
		1930	Precipitation Amount	I E				1/wk	500 km :: G	:: Sfc
		2017	Albedo, Snow	I E				1/wk	500 km :: Land	:: Sfc
		2024	Albedo, Vegetation	I E				1/wk	500 km :: Land	:: Sfc
		2052	Cloud Cover	I E				1/wk	500 km :: G	:: Cloud
		2272	Irradiance, Solar	I E				1/wk	500 km :: G	:: TOA
		2287	Aerosol Optical Depth	I E				1/wk	500 km :: G	:: Strat
		2357	Radiation Budget	I E				1/wk	500 km :: G	
		2461	Cloud Temperature, Top	I E				1/wk	500 km :: G	:: Cloud
		2477	Land_sfc Temperature	I E				1/wk	500 km :: Land	:: Sfc
		2512	Sea_sfc Temperature (SST)	I E				1/wk	500 km :: Ocean	:: Sfc
		2658	Forest Deforestation	I E				1/wk	500 km :: Land	:: Sfc
		2662	Fires [Count, Extent, etc.]	I E				1/wk	500 km :: Land	:: Sfc
		2718	Vegetation Extent	I E				1/wk	500 km :: Land	:: Sfc
		2731	Vegetation Type	I E				1/wk	500 km :: Land	:: Sfc
		2742	Vegetation Index	I E				1/wk	500 km :: Land	:: Sfc
		2764	Wetlands Extent	I E				1/wk	500 km :: Land	:: Sfc
		2962	Soil Moisture	I E				1/wk	500 km :: Land	:: Sfc
		3009	Snow Cover	I E				1/wk	500 km :: Land	:: Sfc
		3075	CO2 Partial Pressure	I E				1/wk	500 km :: Ocean	:: TOO
		3077	Pigment Conc	I E				1/wk	500 km :: Ocean	:: TOO
		3079	Ocean Water Salinity	I E				1/wk	500 km :: Ocean	:: TOO
		3116	Ocean Water Temperature, Internal	I E				1/wk	500 km :: Ocean	:: Sub_sfc
		3150	Sea_Ice Cover	I E				1/wk	500 km :: Ocean/Cryo	:: Sfc
		6	earth radiation budget	I N	ERBE	NOAA	BL			
		16	scene radiances	I N	TM	Landsat	BL			
		18	ocean color / chlorophyll data	I N	CZCS	Nimbus-7	BL			
		25	radiance	I N	AVHRR-GAC	NOAA	BL			
		46	temperature profiles	I N		in situ (radiosonde)	BL			
		100	geophysical data	I N	AMRIR	NOAA	BL			
		164	radiance	I N	AVHRR	NOAA		1/day	1 km :: Canada/R	N/A :: Atmos
		167	radiance	I N	HIRS	NOAA		2/day [d,r]	15 km :: R	N/A :: Atmos
		224	surface albedo	I N	AMRIR	NOAA	BL			
		225	surface air temperature	I N	AMRIR	NOAA	BL			
		226	geophysical data	I N	AMRIR	GEOSAT	BL			
		227	geophysical data	I N	SMMR	Nimbus-7	BL			
		338	O3 data	I N	COMR	NOAA				
		593	industrial emissions	I N		in situ (aircraft, ground station)	AL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Carbon, Energy and Water Cycle Variability (603)	Hanzen	594	deforestation	I	N		in situ (aircraft, ground station)	AL			
		595	deforestation	I	N		operational satellites	AL			
		596	fires	I	N		operational satellites	AL			
		597	fires	I	N		in situ (aircraft, ground station)	AL			
		598	surface air temperature	I	N		in situ (weather station)	AL			
		599	ground temperature	I	N		operational satellites	AL			
		600	temperature profile	I	N		in situ (weather station)	AL			
		601	temperature profile	I	N		operational satellites	AL			
		602	precipitation	I	N		in situ (weather station)	AL			
		603	precipitation	I	N		operational satellites	AL			
		604	precipitation	I	N		Earth Probe	AL			
		605	cloud distribution	I	N		in situ (aircraft, ground station)	AL			
		606	cloud distribution	I	N		in situ (weather station)	AL			
		607	cloud distribution	I	N		operational satellites	AL			
		608	H2O profile	I	N		operational satellites	AL			
		609	vegetation index	I	N		operational satellites	AL			
		610	soil moisture	I	N		in situ (aircraft, ground station)	AL			
		611	soil moisture	I	N		operational satellites	AL			
		612	sea surface temperature (SST)	I	N		in situ (ship, buoy)	AL			
		613	sea surface temperature (SST)	I	N		operational satellites	AL			
		614	salinity	I	N		in situ (ship, buoy)	AL			
		615	pigment conc	I	N		TOPEX	AL			
		616	pCO2	I	N		in situ (ship, buoy)	AL			
		617	CO2 conc	I	N		in situ (aircraft, ground station)	AL			
		618	CH4 conc	I	N		in situ (aircraft, ground station)	AL			
		619	vegetation distribution	I	N		operational satellites	AL			
		620	wetlands extent	I	N		operational satellites	AL			
		621	CFCs conc	I	N		in situ (aircraft, ground station)	AL			
		622	N2O conc	I	N		in situ (aircraft, ground station)	AL			
		623	O3 profile	I	N		operational satellites	AL			
		624	O3 profile	I	N		UARS	AL			
		625	H2O conc, stratosphere	I	N		UARS	AL			
		626	aerosols, stratosphere	I	N		UARS	AL			
		627	solar irradiance	I	N		UARS	AL			
		628	vegetation/land albedo	I	N		operational satellites	AL			
		629	cloud cover	I	N		in situ (weather station)	AL			
		630	cloud cover	I	N		operational satellites	AL			
		631	cloud cover	I	N		TOPEX	AL			
		632	cloud height (temperature)	I	N		operational satellites	AL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Carbon, Energy and Water Cycle Variability (603)	Hansen	633	cloud optical depth	I	N		operational satellites	AL			
		634	sea ice cover	I	N		operational satellites	AL			
		635	snow cover/land albedo	I	N		operational satellites	AL			
		636	ocean heat exchange	I	N		in situ (ship, buoy)	AL			
		637	ocean heat exchange	I	N		TOPEX	AL			
		638	upper air temperature	I	N		in situ (weather station)	AL			
		639	upper air temperature	I	N		operational satellites	AL			
		640	ocean internal temperature	I	N		in situ (ship, buoy)	AL			
		641	radiation budget	I	N		TOPEX	AL			
		642	radiation budget	I	N		operational satellites	AL			
		643	radiation budget	I	N		Earth Probe	AL			
		644	near surface temperature	I	N		in situ (weather station)	AL			
		645	near surface temperature	I	N		in situ (ship, buoy)	AL			
		646	near surface humidity	I	N		in situ (weather station)	AL			
		647	near surface humidity	I	N		in situ (ship, buoy)	AL			
		648	surface winds	I	N		in situ (weather station)	AL			
		649	surface winds	I	N		Earth Probe	AL			
		656	boundary layer height	I	N		Earth Probe	AL			
		657	vegetation phenology	I	N		operational satellites	AL			
		658	field capacity	I	N		in situ (aircraft, ground station)	AL			
		659	snow cover	I	N		operational satellites	AL			
		660	snow depth	I	N		operational satellites	AL			
		661	land ice cover	I	N		operational satellites	AL			
		662	land ice thickness	I	N		operational satellites	AL			
		663	wind vector profiles	I	N		in situ (weather station)	AL			
		664	wind vector profiles	I	N		Earth Probe	AL			
		665	cloud liquid water content	I	N		operational satellites	AL			
		666	cloud liquid water profile	I	N		operational satellites	AL			
		667	cloud drop phase	I	N		operational satellites	AL			
		668	cloud drop size-distribution	I	N		operational satellites	AL			
		669	precipitable water	I	N		operational satellites	AL			
		670	water vapor column amount	I	N		operational satellites	AL			
		671	cloud amount	I	N		operational satellites	AL			
		672	cloud optical thickness	I	N		operational satellites	AL			
		673	runoff	I	N		in situ (aircraft, ground station)	AL			
		744	humidity profiles	I	N		in situ (radiosonde)	BL			
		745	column water vapor	I	N		in situ (radiosonde)	BL			
Climate, Ocean and Physical Processes (604)	Harris	3565	Ocean Color/Temperature Maps, Composite	O	E			PL		:: Ocean / R(Australia-STC)	
		3566	Phytoplankton Biomass	O	E			PL		:: Ocean / R(Australia-STC)	
		3567	Phytoplankton Species Composition	O	E			PL		:: Ocean / R(Australia-STC)	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Climate, Ocean and Physical Processes (604)	Harris	3568	Temperature, Dry-bulb, Tropopause	O E			PL		Ocean/R(Australia- STC)	
		3569	Ocean Productivity-Variability	O E			PL	seas, yr	Ocean/R(Australia- STC)	
		3570	Fish-stock Abundance	O E			PL	seas, yr	Ocean/R(Australia- STC)	
		3571	C Flux	O E			PL		Ocean	
		3423	Aerosol Size-distribution (Radius-Dispersion)	I E				1/day	50 km :: Ocean/R	
		3424	Aerosol Mass Loading	I E				1/day	50 km :: Ocean/R	
		3425	Sea_sfc Feature position	I E				1 wk	0.25-1 km: Ocean/R	
		3426	Sea_sfc Feature velocity	I E				1 wk	0.25-1 km: Ocean/R	
		3427	Sea_Level Height, Along-track	I E				1-10 days	7-25 km :: Ocean/R	
		3428	Temperature	I E				2/day	10-50 km :: Ocean/R	1 km :: Atmos
		3429	Sea_sfc Topographic Height	I E				1-10 days	7-25 km :: Ocean/R	
		3430	Ocean Wave Direction	I E				1/day	10 deg :: Ocean/R	
		3431	Ocean Wave Height	I E				1-10 days	7-25 km :: Ocean/R	
		3432	Ocean Wave Length	I E				1/day	1-10 km :: Ocean/R	
		3433	Wind Velocity	I E				1 day	25 km :: Ocean/R	N/A :: Sfc
		3434	Wind Velocity	I E				2 days	100 km :: Ocean/R	N/A :: Sfc
		3435	Wind Speed, Sea_sfc	I E				1-10 days	1-25 km :: Ocean/R	N/A :: Sfc
		3436	Cloud Cover	I E				2/day	5-50 km :: Ocean/R	
		3437	Cloud Height, Top	I E				2/day	20-50 km :: Ocean/R	
		3438	Humidity Profile	I E				2/day	10-50 km :: Ocean/R	
		3439	Precipitable Water	I E				1/day	10-25 km :: Ocean/R	
		3440	Precipitable Water	I E				2/day	20-50 km :: Ocean/R	
		3441	Precipitation Amount	I E				2/day	20-50 km :: Ocean/R	
		3442	Aerosol Angstrom Exponent	I E				1/day	1-20 km :: Ocean/R	
		3443	Radiative Flux, Sea_sfc	I E				2/day	20-50 km :: Ocean/R	
		3444	Aerosol Optical Depth	I E				2/day-1/day	20-50 km :: Ocean/R	
		3445	Cloud Optical Depth	I E				2/day-1/day	5-50 km :: Ocean/R	
		3446	Aerosol Radiance, Single scattering	I E				1/day	1-20 km :: Ocean/R	
		3447	Level-2 Radiance, Water-leaving	I E				1/day	1-20 km :: Ocean/R	
		3448	Level-1B Backscatter Coef, HIRIS	I E				2-10 days	0.25-1 km :: Ocean/R	
		3449	Cloud Temperature, Top	I E				2/day-1/day	5-50 km :: Ocean/R	
		3450	Land_sfc Temperature, Skin	I E				2/day	20-50 km :: Ocean/R	
		3451	Sea_sfc Temperature (SST)	I E				1/day	0.25-1 km :: Ocean/R	
		3452	Sea_sfc Temperature (SST)	I E				1/day	20 km :: Ocean/R	
		3453	Gelbstoff Absorption Coef	I E				2-10 days	0.25-1 km: Ocean/R	
		3454	Chlorophyll_a Conc	I E				2-10 days	0.25-1 km: Ocean/R	
		3455	Chlorophyll_a Conc	I E				1/day	1-20 km :: Ocean/R	
		3456	Chlorophyll_a Conc	I E				2-10 days	0.25-1 km :: Ocean/R	
		3457	Organic Matter Conc, Dissolved	I E				1/day	1-20 km :: Ocean/R	
		3458	Pigment Conc	I E				1/day	1-20 km :: Ocean/R	
		3459	Pigment Conc, Accessory	I E				2-10 days	0.25-1 km: Ocean/R	
		3460	Ocean Productivity, Primary	I E				1/day	1-20 km :: Ocean/R	
		3461	Ocean Water Attenuation Coef@490nm	I E				1/day	1-20 km :: Ocean/R	
		3462	Chlorophyll Fluorescence	I E				1/day	1-20 km :: Ocean/R	
Climate Processes Over Oceans (599)	Hartmann	1411	Cloud Structure, Mesoscale	O E				1/day	100 km :: Sites	
		1472	Heat Flux, Latent	O E				1/day	100 km :: Ocean	Sfc ::
		1891	Cloud Ice Content	O E				1/day	10 km :: G	



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Climate Processes Over Oceans (599)	Hartmann	1923	Cloud Liq. water Total Column	O	E				1/day	10 km :: G	Column :: Trop
		1945	Precipitation Amount	O	E				1/day	10 km :: Ocean	
		1002	Aerosol Optical Depth	I	E				1/day	20 km :: G	3 km :: 0-15 km
		1020	Aerosol Size-distribution	I	E				1/day	20 km :: G	N/A :: 0-15 km
		1575	Temperature Profile	I	E				1/day	10 km :: Ocean	1 km :: 0-15 km
		1664	Wind Velocity, Sea_sfc	I	E				1/day	50 km :: Ocean	N/A :: Sfc
		1665	Wind Velocity	I	E				1/day	100 km :: G	:: 0-15 km
		1775	Cloud Drop Size-distribution	I	E				1/day	10 km :: G	0-15 km :: Cloud
		1785	Cloud Ice Content	I	E				1/day	10 km :: Ocean	N/A :: Cloud
		1814	Humidity Profile	I	E				1/day	10 km :: G	1 km :: 0-15 km
		1919	Cloud Liq. water Total Column	I	E				1/day	10 km :: Ocean	Column :: Trop
		1931	Precipitation Amount	I	E				1/day	10 km :: Ocean	N/A :: Trop
		1997	Albedo, Land_sfc	I	E				1/day	20 km :: G	N/A ::
		2188	Radiative Flux, LW	I	E	NSCAT		BL	1/day	<30 km :: Ocean	N/A :: Sfc
		2190	Radiative Flux, LW	I	E	SSM/I		BL	1/day	<30 km :: Ocean	N/A :: TOA
		2213	Radiative Flux, SW	I	E	ERBE		BL	1/day	20 km :: G	N/A :: TOA
		2214	Radiative Flux, SW	I	E	ISCCP		BL	1/day	20 km :: G	N/A :: Sfc
		2306	Cloud Optical Depth	I	E				1/day	10 km :: Ocean	N/A :: Cloud
		2513	Sea_sfc Temperature (SST)	I	E				1/day	10 km :: Ocean	N/A :: Sfc
		1	wind velocity	I	E						
		3	humidity	I	N	NSCAT	ADEOS	BL			
		6	earth radiation budget	I	N	SSM/I	DMSP	BL			
		12	cloud data	I	N	ERBE	NOAA	BL			
		27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL			
		31	geophysical data	I	N		SEASAT	BL			
		39	climatology (T, H, P) data	I	N		in situ	BL			
		43	geophysical data	I	N		ISCCP / FIRE	BL			
		47	geophysical data	I	N		in situ (ship)	BL			
		67	geophysical data	I	N		in situ (raw indsonde)	BL			
		68	meteorological data (including diurnal cycle analysis)	I	N	GMS	EMEX	BL			
		78	precipitation/storm data	I	N	radar	in situ / EMEX	BL			
		118	storm data	I	N		in situ / STREX	BL			
		123	incident spectral irradiance	I	N		in situ (ship, buoy)	AL		Ocean/L	:: Sfc
		124	downwelling spectral radiance	I	N		in situ (ship, buoy)	AL		Ocean/L	1 m :: 0-150 m
		125	upwelling spectral radiance	I	N		in situ (ship, buoy)	AL		Ocean/L	1 m :: 0-150 m
		169	backscatter coefficient	I	N	Weather radar	in situ	BL		30 m :: Land/R	:: Sfc
		222	precipitation/storm data	I	N	radar	TAMEX	BL			
		223	geophysical data	I	N		TRMM	BL			
Andean Mountain Climate-Tectonic Dynamics (605)	Isacks	3572	Precipitation Amount, Average	O	E			PL		:: Land/R(Andes)	
		3573	Precipitation Variability(&Extrema)	O	E			PL		:: Land/R(Andes)	
		3574	Snow&Ice Content	O	E			PL		:: Land/R(Andes)	
		3575	Surface Water Content (Soil Moisture+Lakes+Rivers)	O	E			PL		:: Land/R(Andes)	
		3576	Sediment Conc	O	E			PL		:: Land/R(Andes)	
		3577	Land_sfc Temperature, Average	O	E			PL		:: Land/R(Andes)	
		3578	Land_sfc Temperature-Variability(&Extrema)	O	E			PL		:: Land/R(Andes)	
		3579	Wind Velocity, Prevailing	O	E			PL		:: Land/R(Andes)	
		3580	Dust Conc	O	E			PL		:: Land/R(Andes)	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Andean Mountain Climate-Tectonic Dynamics (605)	Isacks	3381	Dust Spatial Distribution	O	E			PL		Land/R(Andes)	
		3382	Dust Source	O	E			PL		Land/R(Andes)	
		3383	Dust Size	O	E			PL		Land/R(Andes)	
		3384	Dust Composition	O	E			PL		Land/R(Andes)	
		3385	Vegetation Density	O	E			PL		Land/R(Andes)	
		3386	Vegetation Class(Type)	O	E			PL		Land/R(Andes)	
		3387	Land_sfc Roughness	O	E			PL		Land/R(Andes)	
		3388	Crustal Motion	O	E			PL		Land/R(Andes)	
		3389	Erosion-Deposition Events	O	E			PL		Land/R(Andes)	
		3390	Landform Face Freshness	O	E			PL		Land/R(Andes)	
		3391	Landform Stratigraphy	O	E			PL		Land/R(Andes)	
		3392	Landform Structures(Relief/Lithology-)	O	E			PL		Land/R(Andes)	
		1015	Aerosol Layer Boundary Height	I	E				1/event, 1/mo	2 km :: Land/R	75 m :: Atmos
		1016	Aerosol Mass Loading	I	E				1/wk	1-10 km :: Land/R	N/A :: Atmos
		1024	Aerosol Size-distribution	I	E				1/wk	2-15 km ::	Column :: Atmos
		1517	Pressure, Sfc	I	E					Land/R	N/A :: Sfc
		1553	Land_sfc Roughness	I	E				1/mission, 1/mo	30 m :: Land/L	N/A :: Sfc
		1576	Temperature Profile	I	E				1/wk	50 km :: Land/R	1 km :: Trop
		1666	Wind Velocity	I	E				1/wk	100 km :: Land/R	2 km :: Trop
		1815	Humidity Profile	I	E				1/wk	50 km :: Land/R	N/A :: Sfc
		1932	Precipitation Amount	I	E				1/wk	5-50 km :: Land/R	N/A :: Sfc
		1933	Precipitation Rate	I	E				1/event, 1/mo	5-50 km :: Land/R	N/A :: Sfc
		1998	Albedo, Land_sfc	I	E				1/wk	250 m :: Land/R	N/A :: Sfc
		2053	Cloud Cover	I	E				1/wk	5 km :: Land/R	N/A :: Cloud
		2125	Land_sfc Emisivity, Spectral	I	E				1/yr	15-90 m :: Land/L	N/A :: Sfc
		2326	Optical Depth, Total	I	E				1/wk	10-50 km :: Land/R	Column :: Atmos
		2496	Land_sfc Temperature, Skin	I	E				1/wk	1 km :: Land/R	N/A :: Sfc
		2497	Land_sfc Temperature, Skin	I	E				1/wk	90 m :: Land/L	N/A :: Sfc
		2617	Vegetation Biomass, Green	I	E				1/mo	30 m :: Land/L	N/A :: Sfc
		2719	Vegetation Extent	I	E				1/season	1 km :: Land/R	N/A :: Sfc
		2732	Vegetation Type	I	E				1/season	1 km :: Land/R	N/A :: Sfc
		2743	Vegetation Index	I	E				1/mo	240-500 m :: Land/R	N/A :: Sfc
		2744	Vegetation Index	I	E				1/mo	30-60 m :: Land/L	N/A :: Sfc
		2778	Mineral Conc, Rock-Soil	I	E				1/mission, 1/mo	15-30 m :: Land/L	N/A :: Sfc
		2780	Sand Depth	I	E				1/season	50 m :: Land/L	N/A :: Sfc
		2833	Topographic Elevation, Land_sfc, (DEM)	I	E				1/mission	20 m :: Land/L	N/A :: Sfc
		2837	Topographic Elevation, Land_sfc, Control, (DEM)	I	E				1/mission	point :: Land/L	N/A :: Sfc
		2838	Topographic Elevation, Land_sfc, (DEM)	I	E				1/mission	720 m :: Land/R	N/A :: Sfc
		2839	Topographic Elevation, Land_sfc, (DEM)	I	E				1/mission	50 m :: Land/R	N/A :: Sfc
		2844	Topographic Elevation, Land_sfc	I	E				1/mission, 1/season	1 m :: Land/L	N/A :: Sfc
		2851	Landform Feature Distribution	I	E				1/mission	15-30 m :: Land/R	N/A :: Sfc
		2863	Geodetic Site Position, Horizontal	I	E				1/season, 1/yr	point :: Land/R	N/A :: Sfc
		2865	Geodetic Site Position, Vertical	I	E				1/season, 1/yr	point :: Land/R	N/A :: Sfc
		2869	Landform Scarp-fault Elevation	I	E				1/mission	[2-D sect] :: Land/L	N/A :: Sfc
		2902	Drainage Network Structure	I	E				1/mission, 1/yr	15-30 m :: Land/R	N/A :: Sfc
		2908	Ice Sheet Elevation	I	E				2yr	10 m :: Land/Cryo	N/A :: Sfc
		2923	Glacier Cover	I	E				1/season	10-30 m :: Land/L	N/A :: Sfc
		2963	Soil Moisture	I	E				1/mo, 1/yr	60-100 m :: Land/L	N/A :: Sfc

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Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Andean Mountain Climate-Tectonic Dynamics (605)	Isacks	2982	River Channel Patterns	I	E					15-30 m :: Land/L	N/A :: Sfc
		3010	Snow Cover	I	E				1/mo	1 km :: Land/R	N/A :: Sfc
		3011	Snow Cover	I	E				1/secs	15-30 m :: Land/L	N/A :: Sfc
		3031	Snow Depth	I	E				1/secs	30 m :: Land/L	N/A :: Sfc
		3059	Lake Extent	I	E					15-30 m :: Land/L	N/A :: Sfc
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		15	geophysical data	I	N	JERS-1		BL			
		16	scene radiances	I	N	TM	Landsat	BL			
		33	scene radiances	I	N		SPOT	BL			
		38	geophysical data	I	N	SAR	in situ (aircraft)	BL			
		79	geophysical data	I	N	SAR	SIR-C	BL			
		80	soil maps (7.5 min topo)	I	N			BL			
		94	geophysical data	I	N	TIMS	in situ (aircraft)	BL			
		110	geophysical data	I	N	AIS	in situ (aircraft)	BL			
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,n] one time only	1.0 km :: G 0.1 dg :: Land/R	N/A :: Atmos
		187	digital elevation model (surface topography)	I	N			AL			
		200	climate data	I	N		in situ	AL			
		228	seismicity and seismic profiles	I	N		in situ	BL			
		228	seismicity and seismic profiles	I	N		in situ	BL			
		229	geological maps (1:50,000 - 1:1,000,000)	I	N		in situ	BL			
		230	geochemical analyses	I	N			BL			
		231	vegetation maps (1:50,000 - 1:1,000,000)	I	N			BL			
		232	surface photography (1:10,000 - 1:200,000)	I	N		operational satellites	BL			
		233	age determinations (10 yrs - 2M yrs)	I	N		in situ	BL			
		234	gravity data	I	N			BL		200 m - 10 km ::	
		235	stream flow records	I	N		in situ	BL	mo. yr		
		236	lake level records	I	N		in situ	BL	mo. yr		
		237	well logs	I	N		in situ	BL			-5 m ::
		759	surface photography (1:10,000 - 1:200,000)	I	N		in situ (aircraft)	BL			
		760	magnetic field data	I	N			BL		200 m - 10 km ::	
Hydrological Cycle in Arid/Semi-Arid Regions (606)	Kerr/Sorooshian	1473	Heat Flux, Latent	O	E				1/day	500 m :: Land	N/A :: Sfc
		1484	Heat Flux, Sensible	O	E				1/hr	500 km :: Land/R	N/A :: Sfc
		1485	Heat Flux, Sensible	O	E				1/hr	500 m :: Land/R	N/A :: Sfc
		2048	Soil Brightness Index	O	E				1/(2 mo)	30 m :: Land/R	
		2136	Heat Flux, Horizontal	O	E					10 km :: Land/R	:: Trop
		2138	Radiative Flux, Net	O	E				[diurnal]	1 km :: Land/R	N/A :: Sfc
		2270	Irradiance, Total	O	E				1/day	500 m :: Land/R	N/A :: Sfc
		2331	PAR	O	E				2/day [d,n]	500 m :: Land/R	:: Sfc
		2503	Soil Temperature	O	E				1/secs	60 m :: Land/R	:: Sfc
		2609	Vegetation Biomass, Above_sfc	O	E					30 m :: Land/R	:: Sfc
		2621	Vegetation Litter Biomass	O	E					30 m :: Land/R	:: Sfc
		2682	Vegetation Index, Leaf Area, (LAI)	O	E				1/mo	30 m :: Land/R	:: Sfc
		2699	Vegetation Production, Net Primary, (NPP)	O	E				1/yr	500 m :: Land	N/A :: Sfc
		2704	Vegetation Productivity	O	E					30 m :: Land/R	:: Sfc
		2714	Vegetation Condition	O	E				1/wk	500 m :: Land/R	N/A :: Sfc
		2752	Vegetation Index	O	E				1/(2 wk)	30 m :: Land/R	:: Sfc
		2789	Soil Proportion, Bare	O	E				1/wk	500 m :: Land	N/A :: Sfc
		2793	Soil Class	O	E				1/yr	30 m :: Land/R	N/A :: Sfc

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Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Hydrological Cycle in Arid/Semi-Arid Regions (606)	Kerr/Sorooshian	2886	Drainage_Basin Boundary	O	E				1/mission	30 m :: Land/R	:: Sfc
		2901	Runoff_Contributing-area	O	E				1/mission	500 m :: Land/R	N/A :: Sfc
		2973	Soil Moisture	O	E				1/day	500 m :: Land/R	:: Sfc
		2991	Runoff_Contributing-area	O	E				1/mission	500 m :: Land/R	
		3050	River Channel Geometry, Major-stream	O	E				1/secs	30 m :: Land/R	:: Sfc
		3065	Vegetation Stress Index, Water	O	E				1/(2 mo)	500 m :: Land/R	
		1007	Aerosol Conc	I	E				1/day	25 km :: Land	3 km :: Atmos
		1140	CO2 Conc	I	E				1/day	50 km :: G	1 km :: Atmos
		1308	O3 Total Burden	I	E				1/day	25 km :: G	Column :: Atmos
		1385	Cloud Height, Base	I	E				1/hr	1 km :: Land	100 mb :: Trop
		1417	Cloud Height, Top	I	E				1/hr	1 km :: Land/R	:: Cloud
		1518	Pressure	I	E				1/hr	25 km :: Land	3 km :: Trop
		1549	Land_sfc Roughness, Aerodynamic	I	E				1/secs	25 km :: Land	N/A :: Sfc
		1552	Land_sfc Roughness, Geometric	I	E				2/mo	25 km :: Land	N/A :: Sfc
		1577	Temperature Profile	I	E				2/day	50 km :: Land	1 km :: Atmos
		1631	Temperature, Near_sfc	I	E				2/day (d,n)	500 m :: Land/R	N/A :: Sfc
		1706	Wind Flux(Draw)	I	E				1/day	25 km :: Land	10 km :: Trop
		1711	Wind Speed, Land_sfc	I	E				1/day	25 km :: Land/R	N/A :: Sfc
		1758	Lightning Rate	I	E				1/hr	1 km :: Land	:: Trop
		1816	Humidity Profile	I	E				1/(10 min)	1 km :: Land	1 km :: Atmos
		1865	Precipitable Water	I	E				2/day	50 km :: Land	Column :: Atmos
		1881	Humidity, Relative, Near_sfc	I	E				1/hr	1 km :: Land/R	N/A :: Sfc
		1905	Cloud Liq_water Content	I	E				1/day	30 m :: Land/R	:: Cloud
		1934	Precipitation Amount, Daily	I	E				1/day	1 km :: Land/R	N/A :: Sfc
		1957	Precipitation Amount, Rain, Monthly	I	E				1/mo	500 m :: Land/L	N/A :: Sfc
		1959	Precipitation Rate, Rain	I	E				1/day	500 m :: G	N/A :: Trop
		2006	Albedo, Cloud	I	E				1/hr	500 m :: Land/R	:: Cloud
		2009	Albedo, Planetary Spectral, TOA	I	E				1/day	25 km :: Land/R	:: TOA
		2014	Albedo, Land_sfc	I	E				1/wk	500 m :: Land	N/A :: Sfc
		2042	Soil Reflectance, Bi-directional, (BRDF)	I	E				1/secs	N/A :: Land	N/A :: Sfc
		2046	Vegetation Reflectance, Bi-directional,	I	E				1/secs	N/A :: Land	N/A :: Sfc
		2075	Cloud Cover	I	E				1/day	10 km :: Land/R	N/A :: Cloud
		2123	Land_sfc Emissivity	I	E				1/yr	90 m :: Land/R	N/A :: Sfc
		2142	Radiative Flux, Broadband, Down	I	E				1/hr	8 km :: Land/R	N/A :: TOA
		2163	Radiative Flux, LW, Down	I	E				(diurnal)	500 m :: Land/R	:: Sfc
		2192	Radiative Flux, LW, Up	I	E				(diurnal)	500 m :: Land/R	:: TOA
		2216	Radiative Flux, SW, Down	I	E				(diurnal)	500 m :: Land/R	:: Sfc
		2240	Radiative Flux, SW, Up	I	E				(diurnal)	500 m :: Land/R	N/A :: Sfc
		2325	Optical Depth, Total	I	E				1/(5-16 day)	10 km :: Land/R	:: Atmos
		2428	Land_sfc Reflectance, Directional	I	E				1/(2 mo)	30 m :: Land/R	:: Sfc
		2456	Vegetation Temperature	I	E				2/day (d,n)	500 m :: Land/R	:: Sfc
		2462	Cloud Temperature, Top	I	E				1/hr	500 m :: Land/R	:: Cloud
		2541	Land Thermal Inertia	I	E				1/(16 day)	60 m :: Land/R	N/A :: Sfc
		2624	Vegetation Biomass, Sub_sfc	I	E				1/(1-3 yr) [few yr]	1120 m :: Land/R	:: Sub_sfc
		2630	Vegetation Biome Area	I	E				1/secs	:: Land/R	N/A :: Sfc
		2634	Vegetation Density	I	E					60 m :: Land/R	:: Sfc
		2636	Vegetation Height	I	E				1/secs	30 m :: Land/R	:: Sfc
		2638	Vegetation Spatial Density	I	E					60 m :: Land/R	:: Sfc
		2707	Vegetation Rooting Depth	I	E				1/yr	30 m :: Land/R	:: Sfc

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Hydrological Cycle in Arid/Semi-Arid Regions (606)	Kerr/Sorooshian	2709	Vegetation Stomatal Resistance	I	E				1/secs	30 m :: Land/R	
		2733	Vegetation Type	I	E				1/secs	30 m :: Land/R	:: Sfc
		2758	Vegetation Water Content, Integrated	I	E				2/wk	500 m :: Land/R	N/A :: Sfc
		2791	Soil Bulk Density	I	E				1/yr	1 km :: Land	N/A :: Sfc
		2792	Soil Class	I	E				1/yr	30 m :: Land/R	:: Sfc
		2802	Soil Mineral Type	I	E				1/yr	30 m :: Land/R	:: Sfc
		2826	Topographic Elevation, Land_sfc	I	E				1/mission	500 m :: Land	N/A :: Sfc
		2830	Topographic Slope (Azimuth), Land_sfc	I	E				1/yr	30 m :: Land/R	:: Sfc
		2834	Topographic Elevation, Land_sfc, (DEM)	I	E				1/yr	30 m :: Land/R	:: Sfc
		2845	Topographic Slope (Azimuth), Land_sfc	I	E				1/yr	30 m :: Land/R	:: Sfc
		2855	Land Heat Capacity	I	E				1/yr	30 m :: Land/R	N/A :: Sfc
		2882	Structure-Location, Significant Mappable	I	E				1/yr	30 m :: Land/R	:: Sfc
		2917	Soil Hydraulic Conditions, Unsaturated	I	E					30 m :: Land/R	:: Sfc
		2936	Infiltration Capacity	I	E				1/yr	30 m :: Land/R	
		22	geophysical data	I	N	SMMR	Nimbus-7	BL			
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		55	geophysical data	I	N	ASAS	in situ (aircraft)	BL		0.5 m ::	
		67	geophysical data	I	N		in situ (rawinsonde)	BL			
		196	scene radiances	I	N	TMS	in situ (aircraft)	BL			
		238	wind velocity	I	N	scatterometer	ESA-1	BL			
		239	geophysical data	I	N	ASAR	in situ (aircraft)	BL	2 scenes/yr	2.5 - 19 deg.	
		240	geophysical data	I	N	PBMR	in situ (aircraft)	BL		16 deg	
		241	topography	I	N			BL	5 yrs		
		242	antropogenic features	I	N			BL	5 yrs		
		243	precision control points	I	N			BL	5 yrs		
		244	surface characteristics (geophysical)	I	N			BL	5 yrs	:: G	
		245	volcanic plume tracks database	I	N		operational satellites	BL	as required		
		246	GIMMS database	I	N			BL	1 mo		
		247	McIDAS/WeNet database	I	N			BL	1 hr		
		700	wind velocity	I	N	NSCAT	ADEOS	BL	2 day	50 km ::	
		701	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL		1 m ::	
		702	geophysical data	I	N	ERBE		BL		100 km? ::	
		703	cloud data	I	N		in situ / ISCCP	BL	1 hr		
		704	scene radiance data	I	N	TM	Landat	BL	21 day	30 m ::	
		705	geophysical data	I	N		Metcosat	BL	1 hr	1 km ::	
		706	geophysical data	I	N	SSM/I	DMSP	BL	daily	16-70 km ::	
		707	scene radiance data	I	N		SPOT	BL	16 day	20 m ::	
		708	geophysical data	I	N	SAR (X-band)	SIR-C	BL	50 hr	25-40 m ::	
		709	geophysical data	I	N	TMS	in situ (aircraft)	BL		2.5 m ::	
		710	radiance	I	N	AVHRR-LAC	NOAA	BL	2/day [d,n]	1 km ::	
		711	geophysical data	I	N		GOES	BL	hourly	1 km ::	
		712	topography	I	N		SPOT	AL	1 yr	30 m :: Land	
		713	evapotranspiration	I	N	AMRIR	NOAA	AL	1 hr		
		714	surface albedo	I	N	VISSR	GOES	AL	12 hr	1 km :: G	
		715	soil temperature	I	N	AMRIR	NOAA	AL	1-12 hr	500 m ::	
		716	canopy temperature	I	N	AMRIR	NOAA	AL	2/day	1 km ::	
		717	air temperature	I	N		in situ	AL	hourly	1 km ::	
		718	relative humidity	I	N		in situ	AL	hourly	1 km ::	
		719	surface wind	I	N		in situ	AL	hourly	25 km ::	

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Hydrological Cycle in Arid/Semi-Arid Regions (606)	Kerr/Sorooshian	720	aerodynamic roughness	I N		in situ	AL	2 mo		
		721	surface soil moisture	I N		in situ	AL	hourly	30 m ::	
		722	cloud cover	I N	AMRIR	NOAA	AL	hourly	500 m ::	
		723	cloud top temperature	I N	AMRIR	NOAA	AL	hourly	500 m ::	500 m ::
		724	cloud albedo	I N	AMRIR	NOAA	AL	hourly	500 m ::	500 m ::
		725	digitized radar return	I N	NEXRAD	in situ	AL	10 min	1 km ::	
		726	lightning strikes	I N		in situ	AL	10 min	1 km ::	
		727	precipitation intensity	I N		in situ	AL	hourly	1 km ::	
		728	precipitation storm depth	I N		in situ	AL	hourly	1 km ::	
		729	precipitation duration	I N		in situ	AL	hourly	1 km ::	
		730	runoff	I N		in situ	AL	hourly	1 km ::	
		731	ozone optical depth	I N	GOMR	NOAA	AL	hourly	10 km ::	
		732	water vapor total column	I N		in situ (radiosonde)	AL	12 hr	10 km ::	
		733	boundary layer wind	I N		in situ (radiosonde)	AL	hourly	100 km ::	
		734	horizontal tropospheric water vapor flux	I N		in situ (radiosonde)	AL	hourly	100 km ::	
		735	radiative flux (SW), outward, surface	I N	AMRIR	NOAA	AL	2/day	1 km ::	
		736	radiative flux (LW), outward, surface	I N	AMRIR	NOAA	AL	2/day	1 km ::	
		737	photosynthetically active radiation (PAR)	I N		in situ	AL	15 days	1 km ::	
		738	net radiation	I N		in situ	AL	2/day	1 km ::	
		739	vegetation transpiration	I N	AMRIR	NOAA	AL	hourly	30 m ::	
		744	humidity profiles	I N		in situ (radiosonde)	BL			
		745	column water vapor	I N		in situ (radiosonde)	BL			
		747	General Circulation Model (GCM)	I N		model	BL		:: G	:: Atmos
		804	temperature	I N		in situ	BL	1 hr	1 km :: R	
		805	precipitation	I N		in situ	BL	1 hr	1 km :: R	
		806	wind	I N		in situ	BL	1 hr	1 km :: R	
		807	weather radar	I N		in situ	BL	1 hr	1 km :: R	
		808	pressure level, 500 mb	I N		in situ	BL	1 hr	1 km :: R	
		809	atmospheric jets	I N		in situ	BL	1 hr	1 km :: R	
Hydrologic Processes and Climate (607) Lau		3505	Precipitation Amount, Rain	O E			AL	1/mo	:: Land/R(Andes)	N/A :: Sfc
		3506	Precipitable Water	O E			AL		:: G	N/A :: Sfc
		3507	Evaporation, Land_sfc	O E			AL		:: G	N/A :: Sfc
		3508	Soil Moisture	O E			AL		:: G	N/A :: Sfc
		3509	Vegetation Evapotrans	O E			AL		:: G	N/A :: Sfc
		3510	Vegetation Index	O E			AL		:: G	N/A :: Sfc
		3511	Heating, Latent	O E			AL			:: Atmos
		3512	Moisture Transport Statistics	O E			AL		:: G	:: Atmos
		3513	Moisture Budget	O E			AL			:: Atmos
		3514	Precipitation Sampling statistics, Rain	O E			AL			:: Upper atmos
		3515	Radiative Flux Divergence, Clear-sky	O E			AL			N/A :: Sfc
		3516	Radiative Flux Divergence, Cloudy-sky	O E			AL			
		1402	Cloud Height, Cirrus	I E				2/day	50 km :: G	N/A :: Atmos
		1468	Heat Flux, Latent	I E				1/hr	30 m :: Land/L	N/A :: Sfc
		1479	Heat Flux, Sensible	I E				1/hr	30 m :: Land/L	N/A :: Sfc
		1501	Heating Rate, Latent	I E				1/mo	500 km :: G	2 km :: Trop
		1502	Heating Rate, Latent	I E				1/day	50 km :: R	1 km :: Trop
		1533	Pressure, Sfc	I E				1/day	100 km :: G	N/A :: Sfc
		1550	Land_sfc Roughness, Aerodynamic	I E				1/hr	30 m :: Land/L	N/A :: Sfc
		1551	Land_sfc Roughness, Aerodynamic	I E				1/wk	10 km :: Land/R	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
Hydrologic Processes and Climate (607) Lau		1578	Temperature Profile	I	E				1/day	100 km :: G	1 km :: Trop
		1712	Wind Speed	I	E				2/day	100 km :: G	1 km :: Trop
		1738	Wind Speed, PBL	I	E				1/hr	30 m :: Land/L	N/A :: PBL
		1739	Wind Speed	I	E				2/day	100 km :: G	N/A :: Sfc
		1743	Wind Stress	I	E					:: Ocean	N/A :: Sfc
		1788	Vegetation Evapotrans	I	E				1/day	1 km :: Land/L	N/A :: Sfc
		1801	Vegetation Evapotrans, Actual, (AET)	I	E				1/day	1 km :: Land/L	N/A :: Sfc
		1802	Vegetation Evapotrans, Actual, (AET)	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		1804	Vegetation Evapotrans, Potential	I	E				1/day	10 km :: Land/R	N/A :: Sfc
		1920	Cloud Liq water Total Column	I	E				1/day	100 km :: G	N/A :: Trop
		1935	Precipitation Amount	I	E				1/mo	500 km :: G	N/A :: Trop
		1936	Precipitation Amount	I	E				1/day	50 km :: R	N/A :: Sfc
		1960	Precipitation Rate	I	E				1/hr	100 m :: Land/L	N/A :: Sfc
		1965	Precipitation Storm Depth (Precip-thickness)	I	E				1/hr	100 m :: Land/L	N/A :: Sfc
		2018	Albedo, Snow	I	E				2/day	50 km :: R	N/A :: Atmos
		2054	Cloud Cover	I	E				1/day	100 km :: G	N/A ::
		2070	Cloud Cover, Cirrus	I	E				1/day	500 km :: G	N/A :: Sfc
		2154	Radiative Flux, LW	I	E				1/day	500 km :: G	N/A :: Sfc
		2215	Radiative Flux, SW	I	E				1/day	100 m :: Land/L	N/A :: Sfc
		2501	Soil Temperature	I	E				1/(3 day)	1 km :: Land/R	N/A :: Sfc
		2502	Soil Temperature	I	E				1/(3 day)	1 km :: Land/R	N/A :: Sfc
		2514	Sea_sfc Temperature (SST)	I	E				1/wk	100 km :: Ocean	N/A :: Sfc
		2515	Sea_sfc Temperature (SST)	I	E				1/wk	200 km :: Ocean	N/A :: Sfc
		2516	Sea_sfc Temperature (SST)	I	E				1/day	50 km :: R	N/A :: Sfc
		2677	Vegetation Index, Leaf Area, (LAI)	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2734	Vegetation Type	I	E				1/secs	30 m :: Land/L	N/A :: Sfc
		2835	Topographic Elevation, Land_sfc, (DEM)	I	E				1/mission	10 m :: Land/L, R	N/A :: Sfc
		2904	Drainage Basin Boundary	I	E				1/mission	10 m :: Land/L	N/A :: Sfc
		2914	River Floodplain Extent	I	E				1/wk	100 m :: Land/L	N/A :: Sfc
		2938	Inundation Extent	I	E				1/wk	100 m :: Land/L	N/A :: Sfc
		2964	Soil Moisture	I	E				1/(3 day)	50 m :: Land/L	N/A :: Sfc
		2965	Soil Moisture	I	E				1/(3 day)	3 km :: Land/R	N/A :: Sfc
		2981	Precipitation Depth	I	E				1/day	1 km :: Land/R	N/A :: Sfc
		2985	Runoff	I	E				1/day	:: Land/L, R	N/A :: Sfc
		2996	Snow Water Equivalent	I	E				1/wk	30 m :: Land/L	N/A :: Sfc
		2997	Snow Water Equivalent	I	E				1/wk	5 km :: Land/R	N/A :: Sfc
		3012	Snow Cover	I	E				1/wk	100 m :: Land/L	N/A :: Sfc
		3013	Snow Cover	I	E				1/wk	1 km :: Land/L	N/A :: Sfc
		3032	Snow Depth	I	E				1/wk	5 km :: Land/R	N/A :: Sfc
		3033	Snow Depth	I	E				1/wk	30 m :: Land/R	N/A :: Sfc
		3049	River Channel Geometry, Major-stream	I	E				1/mission	30 m :: Land/R	N/A :: Sfc
		3060	Surface Water Area	I	E				1/wk	30 m :: Land/L	N/A :: Sfc
		3061	Surface Water Area	I	E				1/wk	1 km :: Land/R	N/A :: Sfc
		3081	Ocean Water Salinity	I	E				1/wk	500 km :: Ocean/Trop	N/A :: Sfc
		3218	Ocean Water Temperature, Internal	I	E				1/day	10 km :: Ocean/R	10 m :: Sub_sfc
		6	earth radiation budget	I	N	ERBE	NOAA	BL			
		8	wind velocity	I	N	SCAT	ERS-1	BL			
		11	geophysical data	I	N	IR instrument	GMS	BL			
		22	geophysical data	I	N	SMMR	Nimbus-7	BL			
		26	vegetation index (NDVI)	I	N	AVHRR	NOAA	BL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Hydrologic Processes and Climate (607)	Lau	27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL			
		28	sounding data	I	N	TOVS	NOAA	BL			
		35	sea level and other data	I	N	ALT	TOPEX	BL	1/(10 day)	7 km :: G	
		36	precipitation data	I	N		TRMM	BL			
		43	geophysical data	I	N		ISCCP/FIRE	BL			
		65	GLA-assimilated data	I	N			BL			
		82	geophysical data	I	N		TOGA	BL			
		90	climatology station records	I	N		in situ	BL			
		96	solar irradiance	I	N		SMM	BL			
		109	geophysical data	I	N	VISSR	GOES	BL			
		157	temperature analysis	I	N						
		160	moisture analysis	I	N						
		164	radiance	I	N	AVHRR	NOAA		1/day	1 km :: Canada/R	N/A :: Atmos
		164	radiance	I	N	AVHRR	NOAA		1/day	1 km :: Canada/R	N/A :: Atmos
		166	radiance	I	N	VAS/VISSR	GOES		18/day [d,n]	1, 4, 8 km :: R	N/A :: Atmos
		169	backscatter coefficient	I	N	Weather radar	in situ			30 m :: Land/R	:: Sfc
		180	precipitation data	I	N	rain gage					
		226	geophysical data	I	N		GEOSAT	BL			
		3593	Level-2 Data Comparisons, EOS_Instrument	O	E			PL		:: R (Tropics,So,Hemis)	
Weather Prediction: Tropics & S. Hemisphere (608)	LeMarshall	3517	Heat Flux, Latent	O	E			PL	3 day	1 x 1 dg :: Ocean	N/A :: Sfc
		3518	Heat Flux, Sensible	O	E			PL	3 day	1 x 1 dg :: Ocean	N/A :: Sfc
		3519	Ocean Circulation, Model Eddy-Resolving	O	E			PL	3 day	1/3 dg :: Ocean	30 level ::
		3520	Sea Level Height	O	E			PL	10 day	1/3 dg :: Ocean	N/A :: Sfc
		1579	Temperature Profile	I	E				1/day	25 km :: Ocean	0.5 km :: Trop
		1667	Wind Velocity	I	E				1/day	25 km :: Ocean	:: Trop
		1702	Wind Direction	I	E				1/day	25 km :: Ocean	N/A :: Sfc
		1713	Wind Speed, Sea_sfc	I	E				1/day	25 km :: Ocean	N/A :: Sfc
		1817	Humidity Profile	I	E				1/day	25 km :: Ocean	0.5 km :: Trop
		1866	Precipitable Water	I	E				1/day	25 km :: Ocean	Column :: Trop
		1973	Precipitation Amount, Rain	I	E				2/day	25 km :: Ocean	N/A :: Trop
		2055	Cloud Cover	I	E					:: Ocean	N/A :: Cloud
		2517	Sea_sfc Temperature (SST)	I	E				1/wk	10 km :: G	N/A :: Sfc
		2546	Cloud Spectral Char	I	E					:: G	N/A :: Cloud
		3123	Topographic Elevation, Sea_sfc	I	E					:: Ocean	N/A :: Sfc
		1	wind velocity	I	N	NSCAT	ADEOS	BL			
		35	sea level and other data	I	N	ALT	TOPEX	BL	1/(10 day)	7 km :: G	
		47	geophysical data	I	N			BL			
		48	geophysical data	I	N		in situ (ship)	BL			
		53	wind speed	I	N		in situ (buoy)	BL			
		64	ocean salinity	I	N		in situ	BL			
Air-Sea Exchanges and Ocean Variability (609)	Liu	67	geophysical data	I	N		in situ (raw/indsonde)	BL			
		69	Eddy General Circulation Model (EGCM)	I	N		model	BL		:: Ocean	:: Ocean
		70	geophysical data	I	N		GEWEX	BL			
		71	geophysical data	I	N		WOCE	BL			
		82	geophysical data	I	N		TOGA	BL			
		90	climatology station records	I	N		in situ	BL			
		209	surface wind	I	N		in situ (buoy)	BL			
		213	humidity soundings	I	N		CEAREX				



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Air-Sea Exchanges and Ocean Variability (609) Changes in Biogeochemical Cycles (610)	Liu	226	geophysical data	I	N		GEOSAT	BL			
		1091	CH4 Emission	O	E				1/mo	1 km :: Land	:: Sfc
		1092	CH4 Emission	O	E				1/mo	.030-1 km :: Land/R,L	:: Sfc
		1143	CO2 Exchange	O	E					Mult :: Land/R	
		1144	CO2 Exchange	O	E					Mult :: Land	
		1245	N2O Emission	O	E				1/mo, 1/yr	.030-1 km :: Land/L,R	
		1246	N2O Emission	O	E				1/mo, 1/yr	1 km :: Land	
		1797	Vegetation Evapotrans	O	E				1/day, 1/wk	.030-1 km :: Land/R,L	
		1798	Vegetation Evapotrans	O	E				1/day, 1/wk	1 km :: Land	
		2332	PAR	O	E				1/day	.030-1 km :: Land/R,L	
		2333	PAR	O	E				1/day	1 km :: Land	
		2549	Soil N Turnover	O	E				1/mo, 1/yr	Mult :: Land/R,L	
		2550	Soil N Turnover	O	E				1/mo, 1/yr	Mult :: Land	
		2610	Vegetation Biomass, Above_sfc	O	E				1/(1-3 yrs) [few yrs]	.030-1 km :: Land/R	
		2611	Vegetation Biomass, Above_sfc	O	E				1/(1-3 yr) [few yr]	.030-1 km :: Land	
		2622	Vegetation Litter Biomass	O	E				1/(1-3 yr) [few yr]	:: Land/R,L	
		2623	Vegetation Litter Biomass	O	E				1/(1-3 yr) [few yr]	:: Land	
		2625	Vegetation Biomass, Sub_sfc	O	E				1/(1-3 yr) [few yr]	Land/R	
		2626	Vegetation Biomass, Sub_sfc	O	E				1/(1-3 yr) [few yr]	:: Land	
		2633	Fire Burning Index	O	E				1/yr	1 km :: Land	
		2635	Vegetation Extent	O	E				1/yr	1 km :: Land	
		2683	Vegetation Index, Leaf Area, (LAI)	O	E				1/(1-3 mo) [few mo]	30 m :: Land/L,R	
		2697	Vegetation Production, Net Ecosystem, (NEP)	O	E				1/yr	km [?] :: Land	
		2700	Vegetation Production, Net Ecosystem, (NEP)	O	E				1/yr	1 km :: Land	
		2705	Soil Proportion, Bare	O	E				1/mo	1 km :: Land	
		2725	Vegetation Stress Index, XXX	O	E				1/mo	30 m :: Land/R,L	
		2738	Vegetation Type	O	E				1/(3 yr)	1 km :: Land	
		2753	Vegetation Index	O	E				1/mo, 1/yr	.030-1 km :: Land/R,L	
		2754	Vegetation Index	O	E				1/mo, 1/yr	1 km :: Land	
		2769	Sediment(C) Constituent Flux	O	E				1/wk	1 km :: Sel_basins	N/A :: Sfc
		2775	Sediment(N) Constituent Flux	O	E				1/wk	1 km :: Sel_basins	N/A :: Sfc
		2777	Sediment(P) Constituent Flux	O	E				1/wk	1 km :: Sel_basins	N/A :: Sfc
		2893	River Discharge	O	E				1/wk	1 km :: Land	
		2937	Inundation Depth	O	E				1/wk	1 km :: Land	
		2941	Inundation Extent	O	E				1/wk	1 km :: Land	
		2974	Soil Moisture	O	E				1/(1-2 wk)	.030-1 km :: Land/R,L	
		2975	Soil Moisture	O	E				1/(1-2 wk)	1 km :: Land	
		2990	Runoff	O	E				1/wk	1 km :: Land	
		3069	Hydrological Parameter, XXX	O	E				1/wk	1 km :: Land	
		1008	Aerosol Conc	I	E				1/(2 day)	1 km :: G	
		1009	Aerosol Conc	I	E				1/(2 day)	30 m :: L	
		1118	CO Conc	I	E				1/day	100 km :: G	:: Trop
		1309	O3 Conc	I	E				1/day	100 km :: G	:: Atmos
		1974	Precipitation Amount, Rain	I	E				1/wk	1 km :: G	
		1983	Precipitation Amount, Snow	I	E				1/wk	1 km :: G	
		2057	Cloud Cover	I	E				1/wk	1 km :: G	
		2328	PAR	I	E				1/day, 1/wk	30 m :: Land/L	
		2329	PAR	I	E				1/day, 1/wk	500 m :: Land/R	
		2360	Cloud Radiation	I	E				1/wk	1 km :: G	:: Cloud

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
Changes in Biogeochemical Cycles (610)	Moore	2535	Vegetation Temperature	I	E						
		2618	Vegetation Biomass, Green	I	E				1/(2-16 day)	500 m :: Land/R	:: Sfc
		2619	Vegetation Biomass, Green	I	E				1/(2-16 day)	30 m :: Land/L	:: Sfc
		2647	Vegetation Cellulose Conc	I	E				1/(16 day)	30 m :: Land/L	:: Sfc
		2649	Vegetation Chlorophyll Conc	I	E				1/day, 1/wk	30 m :: Land/L	
		2650	Vegetation Chlorophyll Conc	I	E				1/day, 1/wk	1 km :: Land/R	:: Sfc
		2684	Vegetation Lignin Conc	I	E				1/(16 day)	30 m :: Land/L	
		2688	Vegetation N Conc	I	E				1/(16 day)	1 km :: Land/R	
		2689	Vegetation N Conc	I	E				1/(16 day)	30 m :: Land/L	
		2695	Pigment Conc, Non-photosynthetic	I	E				1/(16 day)	1 km :: Land/R	:: Sfc
		2696	Pigment Conc, Non-photosynthetic	I	E				1/(16 day)	30 m :: Land/L	:: Sfc
		2721	Vegetation Extent	I	E				1/yr	1 km :: Land	:: Sfc
		2736	Vegetation Type	I	E				1/yr	1 km :: Land	:: Sfc
		2760	Vegetation Leaf Water Content	I	E				1/day, 1/wk	30 m :: Land/L	:: Sfc
		2762	Vegetation Water Content	I	E				1/day, 1/wk	30 m :: Land/L	:: Sfc
		2800	Soil Extent	I	E				1/yr	1 km :: Land	:: Sfc
		2827	Topographic Elevation, Land_sfc	I	E						
		2889	River Discharge	I	E				1/wk, 1/mo	few sites :: Land	:: Sfc
		2915	River Floodplain Extent	I	E				1/wk, 1/mo	1-25 km :: Land	:: Sfc
		2939	Inundation Extent	I	E				1/wk, 1/mo	1-25 km :: Land	
		2942	Inundation Extent	I	E				1/wk	1-25 km :: Land	
		2966	Soil Moisture	I	E				1/wk, 1/mo	1-25 km :: Land	:: Sfc
		2984	River Stage (Flooding)	I	E				1/wk, 1/mo	point :: Land	:: Sfc
		3027	Snow Liq-water Content	I	E				1/wk	1 km :: Land	:: Sfc
		3046	Snow Water Equivalent	I	E				1/wk	1 km :: Land	:: Sfc
		3057	Vegetation Evapotrans	I	E				1/day, 1/wk	500 m :: R	:: Sfc
		3058	Vegetation Evapotrans	I	E				1/day, 1/wk	30 m :: L	:: Sfc
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		10	surface features	I	N	SAR	ERS-1	BL			
		16	scene radiances	I	N	TM	Landsat	BL			
		26	vegetation index (NDVI)	I	N	AVHRR	NOAA	BL			
		33	scene radiances	I	N		SPOT	BL			
		34	geophysical data	I	N	SSM/I	DMSP	BL			
		76	soil types	I	N			BL			
		90	climatology station records	I	N		in situ	BL			
		111	ocean color data	I	N	FLI	in situ (aircraft)	BL			
		163	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,n]	1.0 km :: G	N/A :: Atmos
		188	radiance	I	N	AVHRR-GAC	NOAA	AL	2/day [d,n]	4.0 km :: G	N/A :: Atmos
		249	digital maps (geophysical)	I	N			BL			
		485	CO conc	I	N			BL			
		486	O3 conc	I	N	MAPS	Shuttle	TB	daily	100 km :: G	
		487	precipitation as rain	I	N	TOMS	Meteor-3 + others	TB	1 wk	100 km :: G	
				I	N		geostationary satellite	AL	1 wk	1 km :: G	
		488	precipitation as rain	I	N		TRMM	AL	1 mo	5 x 5 dg :: R/Tropics	
		489	clouds/radiation	I	N		geostationary satellite	AL	1 wk	1 km :: G	
		490	clouds/radiation	I	N		in situ (weather station)	AL	1 wk		

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Changes in Biogeochemical Cycles (610)	Moore	491	vegetation temperature	I	N		in situ (weather station)	TB			
		492	land cover	I	N		in situ	BL	1 yr	1 km :: G	
		493	soil moisture (derived from level-lb data)	I	N	SMMR	Nimbus-7	BL	1 wk - 1 mo	25 km :: G	
		494	floodplain extent and inundation (derived from level-lb data)	I	N	SMMR	Nimbus-7	BL	1 wk - 1 mo	25 km :: G	
		495	discharge hydrographs	I	N		in situ	BL	1 wk - 1 mo	:: selected locations	
		496	river stage	I	N		in situ	BL	1 wk - 1 mo	:: selected locations	
		497	wind vectors (GCM)	I	N		model	BL			
		498	N2O conc	I	N		in situ (aircraft) / ABLE	BL			
		499	CH4 conc	I	N		in situ (aircraft) / ABLE	BL			
		500	N2O conc	I	N		in situ (aircraft) / ABLE	BL			
		740	geophysical data	I	N	MSS	Landsat	BL			
Global Assessment of Volcanism (611)	Mouginis-Mark	3265	Aerosol Dispersal, Eruption, Plume	O	E				1/event	1 km :: G	Plume_col
		3267	Eruption-Plume Dispersal	O	E				1/event	1 km :: R	N/A :: Sfc
		3268	Lava-Flow Cooling Rate	O	E				1/event	30 m :: Land/L	N/A :: Sfc
		3272	Volcano Cone Deformation	O	E				(~10)/event	30 m :: Land/L	cm :: Sfc
		3275	Volcano Elevation	O	E				1/mission	30 m :: Land/L	N/A :: Sfc
		3277	Volcano Elevation, Reference	O	E				1/mission	30 m :: Land/L	N/A :: Sfc
		3279	Volcano Emissions, Eruption	O	E				1/yr	20 km :: G	N/A :: Plume_top
		3280	Lava-Flow Eruption Rate, Mass	O	E				1/day, 1/wk	30 m :: Land/L	N/A :: Sfc
		3281	Eruption, Plume SO2 Eruption Rate, Mass	O	E				1/day, 1/wk	1 km :: G	N/A :: Sfc
		3296	Volcano Temperature-Change	O	E				1/yr	30 m :: Land/L	N/A :: Sfc
		3300	Volcano Volume-Change	O	E				1/event	30 m :: Land/L	N/A :: Sfc
		3262	Lava-Flow Advance Rate	I	E				2/day [d,n]	30 m :: Land/L	N/A :: Sfc
		3263	Aerosol Conc, Stratospheric	I	E				1/wk	:: Strat	:: Strat
		3264	Aerosol Conc, Tropospheric	I	E				1/wk	:: G	:: Trop
		3269	Lava-Flow Areal Change	I	E				2/day [d,n]	30 m :: Land/L	N/A :: Sfc
		3273	Volcano Deformation	I	E				1/day	cm [?] :: [30 km^2/10]	N/A :: Sfc
		3274	Eruption-Plume Dispersal	I	E				1/orbit, 1/day	1 km :: Land/L	N/A :: Plume_col
		3274	Volcano Elevation Change	I	E				2/day [d,n]	30 m :: Land/L	N/A :: Sfc
		3276	Volcano Elevation, Reference	I	E				1/mission	30 m :: Land/L	N/A :: Sfc
		3278	Volcano Elevation Change	I	E				1/event	30 m :: Land/L	N/A :: Sfc
		3282	Eruption-Plume Fallout Rate	I	E				1/day	1 km :: Land/R	N/A :: Plume_col
		3283	Eruption-Plume HCl Content (Mass Eruption Rate)	I	E				1/day	:: G	N/A :: Plume_col
		3284	Volcano Morphology	I	E						N/A :: Sfc
		3285	Eruption-Plume Height	I	E				4/yr	30 m :: Land/L	N/A :: Sfc
		3287	Volcano Roughness	I	E				1/day	1 km :: Land/R	N/A :: Plume_col
		3288	Eruption, Plume SO2 Conc Spike	I	E				1/yr	30 m :: Land/L	N/A :: Sfc
		3289	Eruption, Plume SO2 Content (Mass Eruption Rate)	I	E				[near-real time ?]	1 km :: G	N/A :: Plume_col
		3290	Volcano Temperature, Eruption Spike	I	E				1/day	1 km :: G	N/A :: Plume_col
		3291	Lake Water Temperature, Volcano Summit	I	E				[near-real time ?]	1 km :: G	N/A :: Sfc
		3292	Lava-Flow Temperature	I	E				1/(3 mo)	100 m :: Land/L	N/A :: Sfc
		3293	Eruption-Plume Temperature	I	E				2/day [d,n]	30 m :: Land/L	N/A :: Sfc
		3295	Volcano Temperature-Change	I	E				2/day [d,n]	100 m :: R	N/A :: Plume_col
		3297	Lava-Flow Thickness	I	E				1/yr	30 m :: Land/L	N/A :: Sfc
				I	E				1/event	30 m :: Land/L	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Assessment of Volcanism (611)	Mouginis-Mark	3302	Temperature, PBL	I	E						
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL	1/day	30 m :: Land/R	N/A :: Plume, cool
		10	surface features	I	N	SAR	ERS-1	BL			
		16	scene radiances	I	N	TM	LandSat	BL			
		25	radiance	I	N	AVHRR-GAC	NOAA	BL			
		29	aerosol profile	I	N	SAGE I, II	SAGE, ERBS, AEM	BL			
		33	scene radiances	I	N		SPOT	BL			
		41	cloud / boundary layer height data	I	N	Lidar	in situ (aircraft, ground)	BL			
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		94	geophysical data	I	N	TMS	in situ (aircraft)	BL			
		106	scene radiances	I	N	TM simulator (NS-001)	in situ (aircraft)	BL			
		110	geophysical data	I	N	AIS	in situ (aircraft)	BL			
		113	digital elevation model	I	N		SPOT	BL			
		547	HCI	I	N		UARS				
		572	radiance	I	N	AVHRR-LAC	NOAA				
		573	SO2 data (for eruption detection and conc)	I	N	TOMS	Meteor-3				
		574	SO2 data (for eruption detection and conc)	I	N	GOMR	NOAA				
		575	SO2 data (for eruption detection)	I	N	TOMS	ADEOS				
		576	SO2 data (for eruption detection)	I	N		Earth Probe				
		577	spectral radiances (4-15 $\mu$ m)	I	N	DMG	ADEOS				
		578	geophysical data	I	N	TTIS	in situ (aircraft)				
		579	IR images	I	N	VISSR	GOES				
		580	SO2 conc	I	N	COSPEC	in situ (aircraft)				
		581	atmospheric extinction	I	N		in situ				
		582	SO2 conc data	I	N	spectrometer network	in situ				
		583	SO2 conc data	I	N		in situ (balloon dustsonde)				
		584	wind velocity	I	N	HRDI	UARS				
		585	aerosols	I	N	TOMS	ADEOS				
		586	volcano location digital map	I	N		in situ				
		587	volcano data	I	N	Zeiss	in situ (aircraft)				
		588	temperature profile	I	N	AVIRIS	in situ (aircraft)				
		589	temperature profile	I	N	TMS	in situ (aircraft)				
		590	coastline map	I	N		model				
		591	wind velocity	I	N		in situ (rawinsonde)				
Atmosphere/Ocean/Land Related to Climate (612)	Murakami	3556	O3 Conc	O	E			PL		5 dg :: G	2 km :: Atmos
		3557	Trace Gas Total Burden, Greenhouse	O	E			PL		5 dg :: G	NA :: Atmos
		3558	Precipitation Amount	O	E			PL		:: Ocean/R(-Pacific)	
		3559	Precipitable Water	O	E			PL		:: Ocean/R(-Pacific)	
		3560	Wind Velocity, Tropospheric 3-D	O	E			PL		:: Ocean/R(-Pacific)	
		3561	Sea Level Height	O	E			PL		:: Ocean/R(-Pacific)	
		3562	Wind Velocity, Sea_sfc	O	E			PL		:: Ocean/R(-Pacific)	
		3563	Heat Flux, Latent	O	E			PL		:: Ocean/R(-Pacific)	
		3564	Sea_sfc Temperature (SST)	O	E			PL		:: Ocean/R(-Pacific)	
		1310	O3 Conc	I	E			PL		:: Ocean/R(-Pacific)	
		1331	O3 Conc	I	E						N/A :: TOA

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol :: Cover.	Vertical Resol :: Cover.
Atmosphere/Ocean/Land Related to Climate (612)	Murakami	1374	Trace Gas Conc	I	E						N/A :: TOA
		1418	Cloud Height, Top	I	E						:: Cloud
		1475	Heat Flux, Net	I	E						
		1580	Temperature Profile	I	E						
		1668	Wind Velocity	I	E						
		1744	Wind Stress	I	E					:: Ocean	N/A :: Sfc
		1818	Humidity	I	E						
		1867	Precipitable Water	I	E						
		1938	Precipitation Amount	I	E						
		1991	Vegetation Evapotrans	I	E						
		2058	Cloud Cover	I	E						N/A :: Cloud
		2105	Aerosol Backscatter	I	E						
		2183	Radiative Flux, LW, Net Up	I	E						N/A :: Atmos
		2234	Radiative Flux, SW, Net Down	I	E						N/A :: Atmos
		2327	Aerosol Extinction Coef	I	E					:: G	N/A :: Atmos
		2395	Radiative Flux, LW, Up	I	E						N/A :: TOA
		2518	Sea_sfc Temperature (SST)	I	E					:: G	N/A :: Sfc
		2745	Vegetation Index	I	E					:: Land	N/A :: Sfc
		3014	Snow Cover	I	E					:: Land	N/A :: Sfc
		3040	Snow Mass	I	E					:: Land	N/A :: Sfc
		3066	Soil Moisture	I	E						N/A :: Sfc
		3122	Topographic Elevation, Sea_sfc	I	E						
		1	wind velocity	I	N	NSCAT	ADEOS	BL			
		3	humidity	I	N	SSM/I	DMSP	BL			
		4	precipitation	I	N	SSM/I	DMSP	BL			
		5	surface wind speed	I	N	SSM/I	DMSP	BL			
		8	wind velocity	I	N	SCATT	ERS-1	BL			
		11	geophysical data	I	N	IR instrument	GMS	BL			
		12	cloud data	I	N		ISCCP	BL			
		27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL			
		35	sea level and other data	I	N	ALT	TOPEX	BL	1/(10 day)	7 km :: G	
		37	atmospheric chemistry data	I	N		UARS	BL			
		46	temperature profiles	I	N		in situ (radiosonde)	BL			
		51	surface wind speed	I	N		in situ	PL			
		52	wind climatology	I	N			BL			
		67	geophysical data	I	N		in situ (rawinsonde)	BL			
		73	meteorological data (humidity, etc.)	I	N	MSR	MOS-1, MOS-2	BL			
		74	geophysical data	I	N	VTIR		BL			
		77	snow cover	I	N	SMR	Nimbus-7	BL		:: Land/R	
		156	atmospheric chemistry data	I	N		in situ (rocketsonde)				
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,n]	1.0 km :: G	N/A :: Atmos
		166	radiance	I	N	VAS/VISSR	GOES		18/day [d,n]	1, 4, 8 km :: R	N/A :: Atmos
		188	radiance	I	N	AVHRR-GAC	NOAA	AL	2/day [d,n]	4.0 km :: G	N/A :: Atmos
		189	precipitation	I	N	MSU	NOAA	BL	2/day	150 km :: Ocean	
		211	surface temperature	I	N	TOVS	NOAA				
		224	surface albedo	I	N	AMRIR	NOAA	BL			
		250	geophysical data	I	N		INSAT				
		251	wind stress data	I	N		in situ	BL			
		744	humidity profiles	I	N		in situ (radiosonde)	BL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Atmosphere/Ocean/Land Related to Climate (612)	Murakami	745	column water vapor	I	N		in situ (radiosonde)	BL			
		748	ice cover	I	N			BL			
Chemical, Dynamical & Radiative Interactions (613)	Pyle	1033	BrOy Conc	O	E	SMMR	Nimbus-7			:: Land/R	
		1058	CFC-XXX Conc	O	E						
		1081	CH4 Conc	O	E						
		1115	ClOy Conc	O	E						
		1175	Halons Conc	O	E						
		1181	CFC-XXX (HCFCs) Conc	O	E						
		1227	HOy Conc	O	E						
		1236	N2O Conc	O	E						
		1290	NOy Conc	O	E						
		1364	Ox Conc	O	E						
		1598	Temperature Profile	O	E						
		1646	Vorticity, Potential	O	E						
		1683	Wind Velocity, 3-D	O	E						
		1833	H2O Conc	O	E						
		1003	Aerosol XXX	I	E				2/day	:: G	:: Strat
		1027	BrO Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1031	BrONO2 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1043	CFC-12(CF2Cl2) Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1051	CFC-11(CFCB) Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1061	CH3Br Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1066	CH3Cl Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1077	CH4 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1104	ClO Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1109	ClONO2 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1119	CO Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1167	H2O2 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1177	HBr Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1183	HI Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1194	HF Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1199	HN03 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1210	HN04 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1211	OH Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1213	HO2 Conc	I	E				2/day	15 x 4 km :: G	2 km :: Strat
		1219	HOCl Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1231	N2O Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1251	N2O5 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1263	NO Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1270	NO2 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1280	NO3 Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1295	O(3P) Conc	I	E				1/day [n]	15 x 4 km :: G	3 km :: Strat
		1311	O3 Conc	I	E				1/week	15 x 4 km :: G	2 km :: Strat
		1350	OCO Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1404	Cloud Height, PSC	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		1581	Temperature Profile	I	E				2/day	:: G	:: Strat
		1714	Wind Speed	I	E				2/day	15 x 4 km :: G	2 km :: Strat
		1819	H2O Conc	I	E				2/day	15 x 4 km :: G	3 km :: Strat

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chemical, Dynamical & Radiative Interactions (613)	Pyle	2273	Irradiance, Solar	I	E				2/day	15 x 4 km :: G	3 km :: Strat
		252	atmospheric chemistry data	I	N	ISAMS	UARS	BL			
		478	atmospheric constituent data	I	N	ATMOS	Shuttle				
		479	atmospheric constituent data	I	N	TOMS	Meteor-3 + others				
		480	atmospheric constituent data	I	N	SBUV/2	NOAA				
		761	geophysical data	I	N	CLAES	UARS	BL			
		762	geophysical data	I	N	MLS	UARS	BL			
		1093	CH4 Flux	O	E				1/day	1 km :: Land/R	:: Sfc
		1094	CH4 Flux	O	E				1/day	1 km :: Land/R	
		1147	CO2 Flux	O	E				1/day	1 km :: Land/R	:: Sfc
		1155	COS Flux	O	E				1/day	1 km :: Land/R	
		1795	Vegetation Evapotrans	O	E				1/mo	1 km :: Land/R	:: Sfc
		1796	Vegetation Evapotrans	O	E				1/mo	1 km :: Land/R	
		1943	Precipitation Amount	O	E				1/wk	1 km :: Land/R	:: Sfc
Long-Term Monitoring of Amazon Ecosystems (614)	Richey/Balata	1944	Precipitation Amount	O	E				1/wk	1 km :: R	
		2710	Ground Water Sum Routing	O	E				1/mo	1 km :: Land/R	
		2987	Runoff	O	E				1/wk	1 km :: Land/R	:: Sfc
		2988	Runoff	O	E				1/wk	1 km :: Land/R	
		1810	Precipitable Water	I	E				1/day	:: R	:: Trop
		1863	Precipitable Water	I	E				1/wk	1 km :: R	Column :: Trop
		2141	Radiative Flux, Broadband	I	E				2/day	:: Land/R	
		2476	Land_sfc Temperature	I	E				1/day	:: Land/R	
		2627	Vegetation Biomass	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2654	Lake Water Chlorophyll Conc	I	E				1/wk	1 km :: Land/R	N/A :: TOO
		2655	River Water Chlorophyll Conc	I	E				1/wk	1 km :: Land/R	N/A :: TOO
		2693	Vegetation Physiography	I	E				1/mo	1 km :: Land/R	N/A :: Sfc
		2708	Vegetation Moisture, Root-zone	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2726	Vegetation Structure	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2809	River Water Chemistry	I	E				1/wk	1 km :: Land/R	N/A :: Sfc
		2810	Soil Chemistry	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2812	Lake Water Chemistry, XXX	I	E				1/wk	1 km :: Land/R	N/A :: Sfc
		2913	River Floodplain Extent	I	E				1/secs	1 km :: Land/R	N/A :: Sfc
		2958	Soil Moisture	I	E				1/mo	1 km :: Land/R	N/A :: Sfc
		2983	River Stage (Flooding)	I	E				1/secs	100 m :: Land/R	N/A :: Sfc
		3203	Lake Water Attenuation Coef	I	E				1/wk	1 km :: Land/R	N/A :: TOO
		3205	River Water Attenuation Coef	I	E				1/wk	1 km :: Land/R	N/A :: TOO
		2	geophysical data	I	N	AVIRIS	in situ (aircraft)	BL			
		12	cloud data	I	N		ISCCP	BL			
		16	scene radiances	I	N	TM	Landat	BL			
		33	scene radiances	I	N		SPOT	BL			
		38	geophysical data	I	N	SAR	in situ (aircraft)	BL			
		70	geophysical data	I	N		GEWEX	BL			
		109	geophysical data	I	N	VISSR	GOES	BL			
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,j]	1.0 km :: G	N/A :: Atmos
		188	radiance	I	N	AVHRR-GAC	NOAA	AL	2/day [d,j]	4.0 km :: G	N/A :: Atmos
		223	geophysical data	I	N		TRMM	BL			
		253	vegetation type (plant distribution)	I	N		in situ				

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Long-Term Monitoring of Amazon Ecosystems (614)	Richey/Batista	254	vegetation structure (canopy config., roughness, physiological condition)	I	N		in situ				
		255	canopy chemistry	I	N		in situ				
		256	vegetation spectral mosaic / vegetation mixture model	I	N	AVHRR	NOAA				
		257	canopy spectral properties (spectral radiometric data)	I	N		Landsat				
		258	leaf area index (LAI)	I	N		Landsat				
		259	soil moisture	I	N		in situ				
		260	soil distribution	I	N		in situ				
		261	soil hydraulic properties	I	N		in situ				
		262	soil runoff database	I	N		in situ				
		263	soil carbon database	I	N		in situ				
		264	CO2 flux	I	N		in situ				
		265	river chemistry (dissolved and particulate)	I	N		in situ				
		266	river sediment load	I	N		in situ				
		267	reservoir chemistry	I	N		in situ				
		268	water vapor	I	N		in situ (rawinsonde)				
		269	cloud top OLR (for precipitation index)	I	N		GOES				
		270	sensible heat flux	I	N	VISSR	GOES				
		271	floodplain inundation	I	N	TM	Landsat				
		272	meteorological data	I	N		in situ	BL			
		273	hydrological data	I	N		in situ	BL			
		274	precipitation data	I	N		in situ	BL			
		275	runoff mechanisms and infiltration	I	N		in situ	BL			
		276	river discharge rate	I	N		in situ				
		277	evapotranspiration (ET)	I	N		model				
		278	vegetation and soil database	I	N		in situ	BL			
		279	topographic map database (1:250,000)	I	N			BL			
		280	geophysical data	I	N	VIS, NIR, and TIR	in situ (helicopter)	BL			
		281	geophysical data	I	N	TIR & scatterometer	in situ (aircraft)	BL	1/yr		
		763	canopy chemistry	I	N	AVIRIS	in situ (aircraft)				
		764	canopy spectral properties (spectral radiometric data)	I	N		in situ				
		765	soil moisture	I	N		in situ (aircraft)				
		766	CH4 flux	I	N		in situ				
		767	water vapor	I	N		in situ (aircraft)				
		768	FAO world soils database	I	N	AVIRIS	in situ (aircraft)	BL			
		769	global vegetation and albedo database	I	N			BL			
		770	primary and secondary land cover database	I	N		in situ	BL			
		771	global temperature, precipitation and soil moisture database	I	N			BL			
		772	global monthly surface climatology database	I	N			BL			
		773	Amazon deforestation map database	I	N			BL			
		774	georeferenced digital land use map (1:250,000) database	I	N			BL			
		775	Amazon vegetation index digital mosaic database	I	N			BL			
		776	agricultural inventories database	I	N			BL			



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Long-Term Monitoring of Amazon Ecosystems (614)	Richey/Baista	777	limnological database (historical and current)	I	N			BL			
		778	cartographic data	I	N			BL			
Polar Ocean Surface Fluxes (597)	Rodbrock	1474	Heat Flux, Latent	O	E		in situ		1/(3 day)	100 km :: > 60 dgLAT	
		1486	Heat Flux, Sensible	O	E				1/day, 1/wk	100 km :: > 60 dgLAT	
		1523	Pressure, Sfc	O	E				1/(3 day)	100 km :: > 60 dgLAT	N/A :: Sfc
		1678	Wind Velocity, Sea_sfc	O	E				1/(3 day)	100 km :: > 60 dgLAT	
		1686	Wind Velocity, Geostrophic	O	E				1/(3 day)	100 km :: > 60 dgLAT	
		2178	Radiative Flux, LW, Net	O	E				1/day	100 km :: > 60 dgLAT	
		2227	Radiative Flux, SW, Net	O	E				1/day, 1/wk	100 km :: > 60 dgLAT	
		2406	Radiance, Total	O	E				1/(3 day)	100 km :: > 60 dgLAT	
		2607	Ocean Productivity, Primary	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: TOO
		3076	Pigment Conc	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: TOO
		3082	Ocean Water Salinity	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: TOO
		3084	Ocean Water Salt Flux	O	E				1/day	100 km :: > 60 dgLAT	:: TOO
		3119	Ocean Water Temperature, Internal	O	E				1/(3 day)	100 km :: > 60 dgLAT	M1 :: TOO
		3132	Wind Velocity	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: Trop
		3187	Sea_Ice Max Extent	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: Sfc
		3194	Sea_Ice Extent	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: Sfc
		3198	Ocean Water Attenuation Coef, Diffuse	O	E				1/(3 day)	100 km :: > 60 dgLAT	:: TOO
		1419	Cloud Height, Top	I	E				1/day	100 km :: Polar	:: Cloud
		1519	Pressure, Sfc	I	E				1/day	500 km :: Polar	N/A :: Sfc
		1627	Temperature, Near_sfc	I	E				1/day	100 km :: Polar	N/A :: Near_sfc
		1669	Wind Velocity, Sea_sfc	I	E				1/day	100 km :: Polar	N/A :: Near_sfc
		1670	Wind Velocity, Sea_sfc	I	E				1/day	25 km :: Polar	N/A :: Sfc
		1820	Humidity, Near_sfc	I	E				1/day	100 km :: Polar	:: Near_sfc
		2012	Albedo, Sea_Ice	I	E				1/(3 day)	25 km :: Polar	N/A :: Sfc
		2076	Cloud Cover	I	E				1/day	100 km :: Polar	N/A :: Cloud
		2490	Sea_Ice Temperature	I	E				1/(3 day)	25 km :: Polar	N/A :: Sfc
		2519	Sea_sfc Temperature (SST)	I	E				1/(2 day)	30 km :: G	N/A :: Sfc
		2544	Cloud Transmissivity	I	E				1/day	100 km :: Polar	N/A :: Cloud
		2950	Vegetation Moisture, Root-zone	I	E				1/day	100 km :: Land	N/A :: Sub_sfc
		3083	Ocean Water Salinity, Sub_ice	I	E				1/(3 day)	500 km :: Polar	N/A :: TOO
		3103	Sea_Ice Motion	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		3117	Ocean Water Temperature, Internal	I	E				1/(3 day)	500 km :: Polar	-1v1 ::
		3163	Sea_Ice Conc, First-year	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		3175	Sea_Ice Conc, Multi-year	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		3178	Sea_Ice Conc, GCM	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		3188	Sea_Ice Cover	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		3189	Sea_Ice Edge	I	E				1/(3 day)	25 km :: Ocean/Cryo	N/A :: Sfc
		8	wind velocity	I	N		ERS-1	BL			
		27	sea surface temperature (SST)	I	N	SCATT					
		28	sounding data	I	N	AVHRR	NOAA	BL			
		39	climatology (T, H, P) data	I	N	TOVS	NOAA	BL			
		102	ice motion	I	N	SAR	in situ	BL			
		157	temperature analysis	I	N		ERS-1	BL			
		210	surface wind	I	N		CEAREX				
		211	surface temperature	I	N	TOVS	NOAA				
		212	surface temperature	I	N	AVHRR	NOAA	BL			
		213	humidity soundings	I	N		CEAREX				

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Polar Ocean Surface Fluxes (597)	Robrock	214	cloud parameters	I	N	TOVS	NOAA				
		215	cloud parameters	I	N	ERBI					
		216	cloud parameters	I	N		CEAREX				
		217	surface radiation flux (net shortwave)	I	N						
		218	surface radiation flux (net shortwave)	I	N	ERBI					
		219	Levitus climatology database	I	N		CEAREX				
		220	bathymetry	I	N						
		221	river inflow	I	N		in situ				
		754	relative humidity	I	N		in situ				
		755	temperature soundings	I	N	AVHRR	NOAA	BL			
		1098	CH4 Uptake	O	E		CEAREX		1/sec	[multiple] :: 6 sites/L	:: Sfc
Factors Limiting Carbon Balance in Grassland (615)	Schimel	1099	CH4 Uptake	O	E						
		1100	CH4 Uptake Time-derivative	O	E				1/sec	30 m :: 6 sites/L	:: Sfc
		1145	CO2 Exchange	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1146	CO2 Exchange Time-deriv	O	E				1/day	Mult :: 6 sites/L	:: Sfc
		1247	N2O Emission	O	E				1/day	Mult :: 6 sites/L	:: Sfc
		1248	N2O Emission Time-deriv	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1257	NH4 Exchange	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1258	NH4 Exchange Time-deriv	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1259	NMHC Flux	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1260	NMHC Flux	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1261	NMHC Flux Time-deriv	O	E				1/sec	30 m :: 6 sites/L	:: Sfc
		1284	NOx Emission	O	E				1/sec	30 m :: 6 sites/L	:: Sfc
		1285	NOx Emission	O	E				1/sec	30 m :: 6 sites/L	:: Sfc
		1286	NOx Emission Time-deriv	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		1799	Vegetation Evapotrans	O	E				1/day	30 m :: 6 sites/L	:: Sfc
		1803	Vegetation Evapotrans Time-deriv, Annual	O	E				1/day	[multiple] :: 6 sites/L	:: Sfc
		2002	Albedo, Land_sfc	O	E				1/day	[multiple] :: 6 sites/L	:: Sfc
		2551	Soil N Turnover	O	E				1/day, 1/wk	[multiple] :: 6 sites/L	
		2552	Soil N Turnover Time-deriv	O	E				1/sec	Mult :: 6 sites/L	:: Sfc
		2637	Vegetation Height	O	E				1/sec	Mult :: 6 sites/L	:: Sfc
		2701	Vegetation Production, Net Primary, (NPP)	O	E				1/yr	500 m :: 6 sites/L	:: Sfc
		2702	Vegetation Production Time-deriv, Net Primary, (dNPP/dt)	O	E				1/sec	[multiple] :: 6 sites/L	:: Sfc
		2790	Soil Proportion, Bare	O	E				1/mo	500 m :: 6 sites/L	:: Sfc
		2887	Bowen Ratio	O	E				1/day	500 m :: 6 sites/L	:: Sfc
		2976	Soil Moisture	O	E				1/wk	30 m :: 6 sites/L	:: Sfc
		1632	Temperature, Near_sfc	I	E				[multiple]	[multiple] :: 6 sites/L	N/A :: Sfc
		1633	Temperature, Near_sfc	I	E				1/day, 1/wk	30 m :: 6 sites/L	N/A :: Sfc
		1790	Vegetation Evapotrans	I	E				1/wk	30 m :: 6 sites/L	N/A :: Sfc
		2263	PAR, Intercepted, (IPAR)	I	E				1/day	500 m :: 6 sites/L	N/A :: Sfc
		2264	PAR, Intercepted, (IPAR)	I	E				1/wk	30 m :: 6 sites/L	N/A :: Sfc
		2265	PAR, Intercepted, (IPAR)	I	E				[multiple]	[multiple] :: 6 sites/L	N/A :: Sfc
		2641	Vegetation Structure	I	E				1/yr	30 m :: 6 sites/L	N/A :: Sfc
		2642	Vegetation Structure	I	E				1/yr	30 m :: 6 sites/L	N/A :: Sfc
		2643	Vegetation Structure	I	E				[multiple]	[multiple] :: 6 sites/L	N/A :: Sfc
		2651	Vegetation Chlorophyll Conc	I	E				1/wk	30 m :: 6 sites/L	N/A :: Sfc
		2652	Vegetation Chlorophyll Conc	I	E				[multiple]	[multiple] :: 6 sites/L	N/A :: Sfc
		2678	Vegetation Index, Leaf Area, (LAI)	I	E				1/wk, 1/mo	30 m :: 6 sites/L	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Factors Limiting Carbon Balance in Grassland (615)	Schimel	2679	Vegetation Index, Leaf Area, (LAI)	I E				[multiple]	[multiple] :: 6 sites/L	N/A :: S/c
		2685	Vegetation Lignin Conc	I E				1/secs	30 m :: 6 sites/L	N/A :: S/c
		2686	Vegetation Lignin Conc	I E				[multiple]	[multiple] :: 6 sites/L	N/A :: S/c
		2690	Vegetation N Conc	I E				1/secs	30 m :: 6 sites/L	N/A :: S/c
		2691	Vegetation N Conc	I E				[multiple]	[multiple] :: 6 sites/L	N/A :: S/c
		2698	Vegetation Production, Net Primary, (NPP)	I E				1/yr	500 m :: 6 sites/L	N/A :: S/c
		2	geophysical data	I N	AVIRIS	in situ (aircraft)	BL			
		297	field studies on Australian test site	I N		in situ	BL			
		298	field studies in Amazonian Brazil	I N		in situ	BL			
		1025	Br Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
Chemical & Dynamical Changes in Stratosphere (616)	Schoeberl	1029	BrO Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1032	BrONO2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1034	CFC-114(C2Cl2F4) Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1035	CFC-113(C2Cl3F3) Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1036	CFC-115(C2ClF5) Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1038	CBrClF2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1039	CCl4 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1041	CCl4 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1045	CFC-12(CF2Cl2) Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1046	CFC-12(CF2Cl2) Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1053	CFC-11(CFCl3) Conc	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1054	CFC-11(CFCl3) Conc	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1056	CFCNO Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1059	H2CO Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1060	CH3 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1063	CH3Br Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1064	CH3OC13 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1069	CH3Cl Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1071	CH3O Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1072	CH3O2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1073	CH3OOH Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1082	CH4 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1083	CH4 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1084	CH4 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1101	CH3O Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1102	Cl Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1106	ClO Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1111	ClONO2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1123	CO Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1152	COF2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1163	H Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1164	H2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1169	H2O2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1170	H2O2 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1179	HBr Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1186	HI Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1196	HF Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km
		1201	HN03 Conc	O E				1/mo	10 dg/ZM :: G	2 km :: 0-90 km

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chemical & Dynamical Changes in Stratosphere (616)	Schoeberl	1209	HNO4 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1215	HO2 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1221	HOCl Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1228	N Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1237	N2O Conc	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1238	N2O Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1253	N2O5 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1265	NO Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1272	NO2 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1281	NO3 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1283	NOx Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1293	O(1D) Conc	O E				1/(3 mo)	6 regions :: R	1 km :: 0-15 km
		1297	O(3P) Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1315	O3 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1316	O3 Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1317	O3 Conc	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1335	O3 Total Burden, TOMS Follow-on	O E				1/(3 mo)	6 regions :: R	1 km :: 0-15 km
		1336	O3 Total Burden, TOMS Version-6	O E				1/day	1 x 1 dg :: G	Column :: Atmos
		1346	O3 Conc, SBUV-2, Corrected	O E				1/day	1 x 1 dg :: R	Column :: Atmos
		1347	O3 Conc, SBUV-2, Follow-on	O E				1/day	8 x 10 dg :: G	5 km :: Atmos
		1348	O3 Conc, SBUV_Corrected	O E				1/day	8 x 10 dg :: G	5 km :: Atmos
		1357	OH Conc	O E				1/(3 mo)	6 regions :: R	1 km :: 0-15 km
		1358	OH Conc	O E				1/mo	2 x 3 dg :: G	2 km :: Trop
		1359	OH Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		1373	Trace Gas Total Burden	O E				[irreg]	N/A :: R	Column :: Atmos
		1599	Temperature Profile	O E				(1-4)/day	2 x 3 dg :: 1-3 sites [few sites	2 km :: Atmos
		1600	Temperature Profile	O E				1/day	4 x 5 dg :: G	3.8 km :: Strat
		1601	Temperature Profile	O E				1/day	4 x 5 dg :: G	110 mb :: Trop
		1602	Temperature Profile	O E				1/day	4 x 5 dg :: G	3.8 km :: Strat
		1603	Temperature Profile	O E				1/day	4 x 5 dg :: G	110 mb :: Trop
		1604	Temperature Profile	O E				1/day	2 x 3 dg :: G	2 km ::
		1624	Temperature Profile	O E				1/day	2 x 2 dg :: R	2 km :: Atmos
		1625	Temperature Profile	O E				1/day	2 x 2 dg :: G	2 km :: Atmos
		1725	Wind Speed	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1726	Wind Speed	O E				1/day	4 x 5 dg :: G	2 km :: Atmos
		1727	Wind Speed	O E				1/day	4 x 5 dg :: G	3.8 km :: Strat
		1728	Wind Speed	O E				1/day	4 x 5 dg :: G	110 mb :: Trop
		1729	Wind Speed	O E				1/day	4 x 5 dg :: G	3.8 km :: Strat
		1730	Wind Speed	O E				1/day	4 x 5 dg :: G	110 mb :: Trop
		1834	H2O Conc	O E				1/day	2 x 3 dg :: G	2 km ::
		1835	H2O Conc	O E				1/mo	10 dgZM :: G	2 km :: 0-90 km
		2412	Radiation Intensity, UV	O E				(1-4)/day	2 x 3 dg :: G	2 km :: Atmos
		1010	Aerosol Conc	I E				1/day	2 x 3 dg :: G	2 km :: Trop
		1021	Aerosol Size-distribution	I E				1/day	200 km :: G	1 km :: Strat
		1028	BrO Conc	I E				1/day	200 km :: G	1 km :: Strat
		1037	C2H6 Conc	I E				1/wk	8 x 10 dg :: G	2 km :: Strat
		1044	CFC-12(CF2Cl2) Conc	I E				1/day	8 x 10 dg :: G	3 km :: Strat
		1052	CFC-11(CFCl3) Conc	I E				1/day	2 x 3 dg :: G	1.5 km :: Strat
				I E				1/day	2 x 3 dg :: G	1.5 km :: Strat

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chemical & Dynamical Changes in Stratosphere (616)	Schoeberl	1062	CH3Br Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1067	CH3Cl Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1078	CH4 Conc	I	E				1/day	2 x 3 dg :: G	1.5 km :: Strat
		1105	C1O Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Strat
		1110	C1ONO2 Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Strat
		1120	CO Conc	I	E				1/day	2 x 3 dg :: G	2 km :: Trop
		1121	CO Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Mid-atmos
		1158	DMS Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Trop
		1168	H2O2 Conc	I	E				1/wk	8 x 10 dg :: G	2 km :: Strat
		1178	HBr Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1184	HCl Conc	I	E				1/day	4 x 5 dg :: G	2 km :: Strat
		1190	HCN Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1195	HF Conc	I	E				1/day	4 x 5 dg :: G	2 km :: Strat
		1200	HNO3 Conc	I	E				1/day	2 x 3 dg :: G	2 km :: Strat
		1208	HNO4 Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1214	HO2 Conc	I	E				1/day [d]	6 x 8 dg :: G	2 km :: Strat
		1220	HOCl Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1232	N2O Conc	I	E				1/day	2 x 3 dg :: G	2 km :: Strat
		1252	N2O5 Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Strat
		1264	NO Conc	I	E				1/day [d]	4 x 5 dg :: G	2 km :: Mid-atmos
		1271	NO2 Conc	I	E				1/day	4 x 5 dg :: G	2 km :: Mid-atmos
		1296	O(3P) Conc	I	E				1/wk [d]	8 x 10 dg :: G	3 km :: Strat
		1312	O3 Conc	I	E				1/day	4 x 5 dg :: G	2.5 km :: Trop
		1313	O3 Conc	I	E				1/day	2 x 3 dg :: G	1.5 km :: Mid-atmos
		1342	O3(1B^OOO) Conc	I	E				1/wk	8 x 10 dg :: G	5 km :: Strat
		1351	OGIO Conc	I	E				1/wk [n]	8 x 10 dg :: G	3 km :: Strat
		1354	OGS Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1356	OH Conc	I	E				1/day [d]	6 x 8 dg :: G	2 km :: Mid-atmos
		1365	PAN Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Strat
		1366	SO2 Conc	I	E				1/wk	8 x 10 dg :: G	3 km :: Strat
		1582	Temperature Profile	I	E				1/day	2 x 2 dg :: G	2 km :: Atmos
		1671	Wind Velocity	I	E				1/day	200 x 200 km :: G	2 km :: Strat
		1821	H2O Conc	I	E				1/day	2 x 3 dg :: G	1.5 km :: Strat
		1822	H2O Conc	I	E				1/day	4 x 5 dg :: G	2.5 km :: Meso
		1856	H2O (HDO) Conc	I	E				1/day	8 x 10 dg :: G	3 km :: Strat
		2374	Radiation Intensity, IR	I	E				1/day	100 km :: G	1.5 km :: Strat
		2411	Radiation Intensity, UV	I	E				1/day	:: G	:: Strat
		2413	Radiation Intensity, Visible	I	E				1/day	:: G	:: Strat
		3226	Electron Energy Spectra	I	E				1/day	5 dgLAT :: G	N/A :: 50-700 km
		3255	Proton Energy Spectra	I	E				1/day	5 dgLAT :: G	N/A :: 50-700 km
		3258	X-Ray Energy Spectra	I	E				1/day	5 dgLAT :: G	N/A :: 15-110 km
		20	aerosols	I	N	SAM II	Nimbus-7	BL			
		21	O3 data	I	N	SBUV	Nimbus-7	BL			
		23	O3 data	I	N	TOMS	Nimbus-7	BL			
		28	sounding data	I	N	TOVS	NOAA	BL			
		29	aerosol profile	I	N	SAGE I, II	SAGE, ERBS, AEM	BL			
		44	model output/analysis	I	N			BL			
		57	radiance	I	N	SSU	NOAA	BL			
		85	limb viewing data	I	N	ATMOS	Shuttle	BL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chemical & Dynamical Changes in Stratosphere (616)	Schoeberl	156	atmospheric chemistry data	I N		in situ (rocketsonde)				
		157	temperature analysis	I N						
		159	wind analysis	I N						
		160	moisture analysis	I N						
		161	sea level pressure analysis	I N						
		162	weather forecasts (6hr, 12hr, 18hr, 24hr)	I N		in situ				
		248	radiance	I N	AMSU	NOAA-11	BL			
		282	upper air analyses	I N			BL			
		287	surface observations (NMC ADP reports)	I N		in situ	BL			
		288	NDSC data	I N			BL			
		289	standard meteorological data	I N		in situ (rawinsonde)	BL			
		290	standard meteorological data	I N		in situ (aircraft)	BL			
		291	cloud cover data	I N			BL			
		292	wind data	I N		operational satellites	BL			
		293	bogus data (i.e., storm system identified from cloud images)	I N			BL			
		294	standard meteorological analyses	I N		model	BL			
		338	O3 data	I N	GOMR	NOAA				
		356	land surface skin temperature	I N		in situ	BL	4/day [d.d.]	1.25 dg :: Land	N/A :: Sfc
		357	radiance: 5 channels	I N	AVHRR-LAC	NOAA	BL	1/day [d.d], 1 yr	1 km :: Polar (65-90 dg, N/S)	N/A :: Atmos
		295	O3 total column	I N		Earth Probe	BL			
		296	O3 total column	I N		Meteor-3	BL			
		330	atmospheric chemistry data	I N	TOMS	in situ (rocketsonde)	BL			
		501	NO2 conc	I N		in situ (aircraft)	BL			
		502	NO conc	I N		in situ (aircraft)	BL			
		503	O3 conc	I N		in situ (aircraft)	BL			
		504	CO2 conc	I N		in situ (aircraft)	BL			
		505	CH4 conc	I N		in situ (aircraft)	BL			
		506	CO conc	I N		in situ (aircraft)	BL			
		507	NOy conc	I N		in situ (aircraft)	BL			
		508	ClO conc	I N		in situ (aircraft)	BL			
		509	BrO conc	I N		in situ (aircraft)	BL			
		510	HN03 conc	I N		in situ (aircraft)	BL			
		511	H2O conc	I N		in situ (aircraft)	BL			
		512	OCIO conc	I N		in situ (aircraft)	BL			
		513	ClONO2 conc	I N		in situ (aircraft)	BL			
		514	CFCs conc	I N		in situ (aircraft)	BL			
		515	HCl conc	I N		in situ (aircraft)	BL			
		516	O3 total column	I N		in situ (aircraft)	BL			
		517	HN03 total column	I N		in situ (aircraft)				
		518	NO total column	I N		in situ (aircraft)				
		519	NO2 total column	I N		in situ (aircraft)				
		520	HCl total column	I N		in situ (aircraft)				
		521	HF total column	I N		in situ (aircraft)				
		522	ClONO2 total column	I N		in situ (aircraft)				
		523	H2 total column	I N		in situ (aircraft)				
		524	N2O total column	I N		in situ (aircraft)				
		525	Cl14 total column	I N		in situ (aircraft)				

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Chemical & Dynamical Changes in Stratosphere (616)	Schoeberl	526	CO2 total column	I	N		in situ (aircraft)				
		527	H2O total column	I	N		in situ (aircraft)				
		528	CO total column	I	N		in situ (aircraft)				
		529	OCS total column	I	N		in situ (aircraft)				
		530	C2H6 total column	I	N		in situ (aircraft)				
		531	OCIO total column	I	N		in situ (aircraft)				
		532	BrO total column	I	N		in situ (aircraft)				
		533	CFCs total column	I	N		in situ (aircraft)				
		534	temperature profile	I	N		UARS				
		535	O3	I	N		UARS				
		536	wind components (u,v)	I	N		UARS				
		537	aerosols	I	N		UARS				
		538	NO	I	N		UARS				
		539	NO2	I	N		UARS				
		540	HNO3	I	N		UARS				
		541	CH4	I	N		UARS				
		542	N2O	I	N		UARS				
		543	CO	I	N		UARS				
		544	H2O	I	N		UARS				
		545	CF2Cl2	I	N		UARS				
		546	CFCl3	I	N		UARS				
		547	HCl	I	N		UARS				
		548	ClO	I	N		UARS				
		549	ClONO2	I	N		UARS				
		550	HF	I	N		UARS				
		551	O3 total column	I	N	TOVS	NOAA				
		552	O3 total column	I	N	TOMS	ADEOS				
		553	O3 conc	I	N	SSBUV	Shuttle				
		554	O3 conc	I	N	SBUV/2	NOAA				
		742	O3 profile	I	N	SAGE I, II	SAGE, ERBS, AEM				
		743	NO2 profile	I	N	SAGE I, II	SAGE, ERBS, AEM				
		756	wind data	I	N		in situ (aircraft)	BL			
		757	atmospheric temperature	I	N		in situ (aircraft)	BL			
		758	aerosols	I	N		in situ (aircraft)	BL			
Biosphere-Atmosphere Interactions (617)	Sellers	1150	CO2 Flux	O	E				1/hr	1 dg ::	
		1487	Heat Flux, Sensible	O	E				4/day	1 dg ::	
		1846	Moisture Flux	O	E				4/day	1 dg ::	
		2712	Vegetation Phenologic State, AVHRR	O	E				1/mo	20 km ::	
		1004	Aerosol XXX	I	E						
		1141	CO2 Conc	I	E						
		1513	PBL Height	I	E						
		1583	Temperature Profile	I	E						
		1715	Wind Speed	I	E				4/day	100 km ::	0.5 km :: Trop
		1823	Humidity Profile	I	E				4/day	100 km ::	0.5 km :: Trop
		1921	Cloud Liq. water Total Column	I	E				4/day	100 km ::	0.5 km :: Trop
		1939	Precipitation Amount	I	E				4/day	100 km ::	
		1984	Precipitation Amount, Snow	I	E						
		1999	Albedo, Land_sfc	I	E				1/(5 day)	100 km :: Land	
		2007	Albedo, Cloud	I	E						

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Biosphere-Atmosphere Interactions (617)	Sellers	2034	Land_sfc Reflectance, Bi-directional, (BRDF)	I	E						
		2041	Land_sfc Reflectance, Bi-directional Spectral, (BRDF)	I	E					250-500 m :: Land	
		2059	Cloud Cover	I	E				4/day	100 km ::	0.5 km :: Trop
		2164	Radiative Flux, LW, Down	I	E				4/day	100 km :: Land	0.5 km ::
		2193	Radiative Flux, LW, Up	I	E				4/day	100 km :: Land	0.5 km ::
		2217	Radiative Flux, SW, Down	I	E				1/yr	100 km :: Land	
		2288	Aerosol Optical Depth	I	E						
		2389	Level-1B Radiance, MODIS	I	E						
		2457	Cloud Temperature	I	E						
		2478	Land_sfc Temperature	I	E					500 m ::	
		2628	Vegetation Biomass	I	E						
		2740	Vegetation Cover	I	E						
		2967	Soil Moisture	I	E				1/(1-4 day)	100 km ::	:: Sfc
		3015	Snow Cover	I	E				1/(1-4 day)	100 km ::	:: Sfc
		3485	Level-1B Radiance, MODIS-T	I	E				1/(1-4 day)	100 km ::	:: Sfc
		6	earth radiation budget	I	N	ERBE	NOAA	BL			
		12	cloud data	I	N		ISCCP	BL			
		16	scene radiances	I	N	TM	Landsat	BL			
		17	geophysical data	I	N		Meteosat	BL			
		22	geophysical data	I	N	SMMR	Nimbus-7	BL			
		45	precipitation	I	N		in situ	BL			
		66	geophysical data	I	N		FGGE	BL			
		77	snow cover	I	N	SMMR	Nimbus-7	BL		:: Land/R	
		84	temperature profiles	I	N		in situ (radiosonde)	BL			
		90	climatology station records	I	N		in situ	BL			
		157	temperature analysis	I	N		model				
		158	geopotential height analysis	I	N						
		159	wind analysis	I	N						
		160	moisture analysis	I	N						
		165	radiance	I	N	AVHRR-LAC	NOAA	AL	2/day [d,n]	1.0 km :: G	N/A :: Atmos
		166	radiance	I	N	VAS/VISSR	GOES		18/day [d,n]	1.4, 8 km :: R	N/A :: Atmos
		188	radiance	I	N	AVHRR-GAC	NOAA	AL	2/day [d,n]	4.0 km :: G	N/A :: Atmos
		246	GIMMS database	I	N			BL	1 mo		
		291	cloud cover data	I	N			BL			
		299	surface stress analyses	I	N		model	BL			
		300	geophysical data	I	N	THIR	Nimbus-7	BL			
		301	vegetation structure	I	N		in situ	BL			
		483	CO2 conc	I	N		in situ				
		484	O2 isotope fractionation	I	N		in situ				
		748	ice cover	I	N	SMMR	Nimbus-7	BL		:: Land/R	
		749	humidity profiles	I	N		in situ (radiosonde)	BL			
		750	other level 2 data	I	N		in situ (radiosonde)	BL			
Cryospheric System: Global Change in Canada (618)	Simard	2899	Ice Sheet Displacement	O	E				1/yr	:: Canada/R	:: Sfc
		2927	Ice Sheet Accumulation	O	E				1/yr	:: Canada/R	:: Sfc
		2928	Ice Sheet Boundary (Margin)	O	E				1/yr	:: Canada/R	:: Sfc
		2979	Permafrost Distribution	O	E				1/(3 yr)	:: Canada/R	:: Sfc
		2980	Permafrost Sensitivity	O	E				1/(3 yr)	:: Canada/R	:: Sfc
		3001	Snow Water Equivalent	O	E				1/wk	10 km :: Canada/R	:: Sfc



Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cryospheric System: Global Change in Canada (618)	Simard	3023	Snow Cover	O E				1/wk	10 km :: Canada/R	:: Sfc
		3036	Snow Depth	O E				1/wk	10 km :: Canada/R	:: Sfc
		3044	Snow State	O E				1/wk	:: Canada/R	:: Sfc
		3135	Sea_Ice Duration, Ice-free_Season	O E				1/yr [7]	:: Canada/R	:: Sfc
		3144	Sea_Ice Conc	O E				1/(2 wk)	10 km :: Canada/R	:: Sfc
		3159	Sea_Ice Edge	O E				1/(2 wk)	500 m :: Canada/R	:: Sfc
		3164	Wind Velocity, Sea_sfc	O E				1/wk	25 km :: Canada/R	:: Sfc
		3169	Sea_Ice Conc	O E				1/(2 wk)	500 m :: Canada/R	:: Sfc
		3172	Sea_Ice Conc	O E				1/wk	500 m :: Canada/R	:: Sfc
		3193	Sea_Ice Extent	O E				1/(2 wk)	500 m :: Canada/R	:: Sfc
		1789	Vegetation Evapotrans	I E					:: Canada/R	N/A :: Sfc
		1937	Precipitation Rate	I E					:: Canada/R	N/A :: Trop
		2019	Albedo, Snow	I E					:: Canada/R	N/A :: Sfc
		2056	Cloud Cover	I E					:: Canada/R	N/A :: Cloud
		2137	Radiative Flux, Net	I E					:: Canada/R	
		2720	Vegetation Extent	I E					:: Canada/R	N/A :: Sfc
		2788	Soil Proportion, Bare	I E					:: Canada/R	N/A :: Sfc
		2894	Glacier Displacement	I E				1/yr, 1/season	:: Canada/R	N/A :: Sfc
		2896	Ice_Sheet Displacement	I E				1/yr, 1/season	:: Canada/R	N/A :: Sfc
		2909	Ice_Sheet Elevation	I E				1/(3 mo)	10 km :: Land/R	N/A :: Sfc
		2910	Ice_Sheet Elevation	I E				1/(3 mo)	100 km :: Land	N/A :: Sfc
		2916	Soil Hydraulic Properties	I E					:: Canada/R	N/A :: Sfc
		2949	Soil Moisture	I E					:: Canada/R	N/A :: Sfc
		2953	Vegetation Moisture, Root-zone	I E					:: Canada/R	N/A :: Sfc
		3026	Snow Cover	I E				1/(7 day)	10 km :: Canada/R	N/A :: Sfc
		3034	Snow Depth	I E				1/(7 day)	10 km :: Canada/R	N/A :: Sfc
		3043	Snow State	I E					:: Canada/R	N/A :: Sfc
		3045	Snow Water Equivalent	I E				1/(7 day)	10 km :: Canada/R	N/A :: Sfc
		3055	Ice_Sheet Thickness	I E				1/(3 mo)	10 km :: Land/R	N/A :: Sfc
		3056	Ice_Sheet Thickness	I E				1/(3 mo)	100 km :: Land	N/A :: Sfc
		3120	Sea_Ice Temperature	I E					:: Canada/R	N/A :: Sfc
		3141	Sea_Ice Conc	I E				1/(7 day)	10 km :: Canada/R	N/A :: Sfc
		3157	Sea_Ice Edge	I E				1/(7 day)	25 km :: Canada/R	N/A :: Sfc
		3162	Sea_Ice Extent	I E				1/(7 day)	25 km :: Canada/R	N/A :: Sfc
		3183	Sea_Ice Cover	I E					:: Canada/R	N/A :: Sfc
		3190	Sea_Ice Edge	I E				1/(7 day)	10 km :: Canada/R	N/A :: Sfc
		3196	Sea_Ice Motion, Regional	I E				1/(7 day)	500 m :: Canada/R	N/A :: Sfc
		3311	Soil Temperature	I E				2/day	100 m :: R/Canada	N/A :: Sfc
		3312	Land_sfc Temperature	I E				2/day	1 km :: R/Canada	N/A :: Sfc
		3313	Land_sfc Temperature	I E				2/day	10 km :: R/Canada	N/A :: Sfc
		33	scene radiances	I N						
		59	altimetry	I N	ALT	SPOT	BL			
		60	altimetry	I N	ALT	GEOSAT	BL			
		165	radiance	I N	AVHRR-LAC	ERS-1	AL	2/day [d,n]	1.0 km :: G	N/A :: Atmos
		283	sea ice data	I N	SAR	in situ (aircraft)	BL	1/season	6m :: Coastal/Canada	
		284	sea ice data	I N	SAR	in situ (aircraft)	BL		50 m :: Coastal/Canada	
		285	sea ice data	I N	ADMR	in situ (aircraft)	BL			
		286	elevation data	I N	Meis II	in situ	BL		3m	
		555	sea ice data	I N	SAR	in situ (aircraft)			high :: R/Canada	

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Algorithm Name (#)	Investigator	Prod #	Product Name	Prod EOS/ Type	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Cryospheric System: Global Change in Canada (618)	Simard	556	sea ice data	I N	SAR	RADARSAT		3 day	100 m :: R/Canada	
		557	sea ice data	I N	SAR	ERS-1			30 m :: R/Canada	
		558	sea ice data	I N	SSM/I	DMSP			30 km :: R/Canada	
		559	snow cover data	I N	SAR (C band)	ERS-1		1 wk	30 m :: R/Canada	
		560	snow cover data	I N	SAR (C band)	RADARSAT		1 wk	30, 100 m :: R/Canada	
		561	snow cover data	I N	SAR (X,C,L-band)	in situ (aircraft)				
		562	snow cover data	I N	AVIRIS	in situ (aircraft)				
		563	snow cover data	I N	Passive Radiometer	in situ				
		564	snow cover data	I N	SSM/I	DMSP		1 day	30 km :: R/Canada	
		565	stereo images	I N		SPOT				
		566	river/lake ice data	I N	SAR (C band)	ERS-1		2/mo (Oct.-May)	30 m :: R/Canada	
		567	river/lake ice data	I N	SAR (C band)	RADARSAT		2/mo (Oct.-May); 3 day (i)	10, 30, 100 m :: R/Canada	
		568	river/lake ice data	I N	SAR (X,C-band)	in situ (aircraft)				
		569	river/lake ice data	I N	SAR (C,L,P-band)	in situ (aircraft)				
		570	river/lake ice data	I N	SMIR	Nimbus-7				
		571	river/lake ice data	I N	SSM/I	DMSP				
		5738	Momentum	O E			PL	1/mo	> 1 dg (Select) ::	
Middle and High Latitude Oceanic Variability (619)	Srokosz	3539	Heat Flux, Latent	O E			PL	1/mo	> 1 dg (Select) ::	
		3540	Heat Flux, Sensible	O E			PL	1/mo	> 1 dg (Select) ::	
		3541	Moisture Flux, Net	O E			PL	1/mo	> 1 dg (Select) ::	
		3542	Radiative Flux, Solar	O E			PL	1/mo	> 1 dg (Select) ::	
		3543	Radiative Flux, LW	O E			PL	1/mo	> 1 dg (Select) ::	
		3544	Momentum-Change Statistics	O E			PL	1/mo	> 1 dg (Select) ::	
		3545	Heat Flux-Change Statistics, Latent	O E			PL	1/mo	> 1 dg (Select) ::	
		3546	Heat Flux-Change Statistics, Sensible	O E			PL	1/mo	> 1 dg (Select) ::	
		3547	Moisture Flux-Change Statistics, Net	O E			PL	1/mo	> 1 dg (Select) ::	
		3548	Radiative Flux-Change Statistics, Solar	O E			PL	1/mo	> 1 dg (Select) ::	
		3549	Radiative Flux-Change Statistics, LW	O E			PL	1/mo	> 1 dg (Select) ::	
		3550	Sea Level Height-Variability, RMS	O E			PL	1/mo	> 1 dg (Select) ::	
		3551	Sea Level Height-Change Statistics	O E			PL	1/season	1 x 1 dg ::	
		3552	Sea sfc Temperature Statistics	O E			PL	5 yr (yr.seas.<seas)	1 x 1 dg :: Ocean/R	
		3553	Sea sfc Temperature-Change Statistics	O E			PL	1/mo	1 km ::	
		3554	Sea sfc Feature-Occurrence Statistics	O E			PL	1/5yr	1 x 1 dg ::	
		3555	Sea sfc Gradient-Changes Statistics	O E			PL	occasional	1 km ::	
		1584	Temperature Profile	I E			PL	occasional	1 km ::	
		1672	Wind Velocity	I E				2/day	10 km :: Ocean [South Atlant]	
		1684	Wind Velocity, Friction	I E				1/day	25 km :: Ocean [South Atlant]	500 m ::
		1703	Wind Direction	I E				1/day	25 km :: Ocean [South Atlant]	N/A :: Sfc
		1716	Wind Speed, Sea_sfc	I E				1/day	25 km :: Ocean [South Atlant]	
		1824	Humidity Profile, Specific	I E				2/day	25 km :: Ocean [South Atlant]	N/A :: Sfc

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Middle and High Latitude Oceanic Variability (619)	Srokosz	1868	Precipitable Water	I	E				2/day	10 km :: Ocean [South Atlantic]	N/A :: Atmos
		1922	Cloud Liq. water Total Column	I	E				2/day	10 km :: Ocean [South Atlantic]	N/A :: Trop
		1975	Precipitation Rate, Rain	I	E				2/day	10 km :: Ocean [South Atlantic]	N/A :: Trop
		2060	Cloud Cover	I	E				2/day	10 km :: Ocean [South Atlantic]	N/A :: Cloud
		2096	Level-1B Backscatter Coef, ALT	I	E				1/(10 day)	10 km :: Ocean [South Atlantic]	N/A :: Sfc
		2106	Level-1B Backscatter, SAR	I	E				[occasional]	25 m :: Ocean [South Atlantic]	N/A :: Sfc
		2109	Level-1B Backscatter Coef, STIKSCAT	I	E				1/day	25 km :: Ocean [South Atlantic]	N/A :: Sfc
		2385	Radiative Flux, LW	I	E				2/day	10 km :: Ocean [South Atlantic]	
		2400	Radiative Flux, SW	I	E				2/day	10 km :: Ocean [South Atlantic]	
		2520	Sea_sfc Temperature (SST)	I	E				2/day	100-1 km :: Ocean [South Atlantic]	N/A :: Sfc
		2563	Chlorophyll Conc	I	E				1/day	1 km :: Ocean [South Atlantic]	N/A :: Sfc
		3107	Topographic Elevation, Sea_sfc	I	E				1/(10 day)	10 km :: Ocean/R	N/A :: Sfc
		3125	Level-1B Backscatter Waveforms, ALT	I	E				1/(10 day)	10 km :: Ocean [South Atlantic]	N/A :: Sfc
		3131	Ocean Wave Height, Significant	I	E				1/day	10 km :: Ocean/R	N/A :: Sfc
		3142	Sea_Ice Conc	I	E				1/day	10 km :: Ocean/Cryo	N/A :: Sfc
		3158	Sea_Ice Edge	I	E				1/day	N/A :: Ocean/Cryo	N/A :: Sfc
		3310	Level-1B Radiance, MODIS	I	E				1/day	1 km :: R	N/A :: Atmos
		1	wind velocity	I	N	NSCAT	ADEOS	BL			
		3	humidity	I	N	SSM/I	DMSP	BL			
		4	precipitation	I	N	SSM/I	DMSP	BL			
		5	surface wind speed	I	N	SSM/I	DMSP	BL			
		8	wind velocity	I	N	SCATT	ERS-1	BL			
		9	sea level data	I	N	ALT	ERS-1,2	BL			
		10	surface features	I	N	SAR	ERS-1	BL			
		108	surface features	I	N	SAR	SIR-B	BL			
		109	geophysical data	I	N	VISSR	GOES	BL			
		311	surface wind velocity	I	N	scatterometer	SEASAT	BL			
		312	geophysical data	I	N	SMMR	SEASAT	BL			
		313	surface wind velocity	I	N	scatterometer	MOS-2	BL			
		314	geophysical data	I	N	altimeter	SEASAT	BL			
		315	surface wind speed	I	N	altimeter	MOS-2	BL			
		379	temperature profile	I	N	altimeter	in situ	BL			
		316	sea surface temperature (SST)	I	N	NSCAT	ADEOS	AL	4/(day[djn])	1.25 dg :: G	1 km :: Atmos
		317	sea surface temperature (SST)	I	N	SMMR	SEASAT	BL			
		318	precipitation	I	N	SMMR	SEASAT	BL			
		319	precipitation	I	N	MSU	TIROS	BL			
		320	surface features	I	N	SAR	SEASAT	BL			
		321	surface features	I	N	SAR	SIR-C	BL			
		322	cloud base height	I	N	ground Lidar	FIRE	BL			
		785	sea level data	I	N	altimeter	MOS-2	BL			

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Product #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Global Angular Momentum Budget (620)	Tapley	1379	Angular Momentum	O	E				4/day	:: G	:: Atmos
		1641	Torque, Friction	O	E				4/day	50 km :: G	N/A :: Sfc
		2854	Lithosphere Gravity Field	O	E					200 km :: Ocean	N/A :: Ocean
		2857	Geodetic Location, Reference	O	E					N/A :: G	N/A :: Sfc
		2860	Geodetic Orientation	O	E				1/day	N/A :: G	N/A :: N/A
		2868	Land_sfc Rebound, Post-Glacial,	O	E				1/(~10 yr)	N/A :: G	ns [?] :: Global
		2875	Torque, Mountain,	O	E				4/day	50 km :: Land	N/A :: Sfc
		2876	Torque, Ocean-Land	O	E				4/day	50 km :: G	N/A :: Sfc
		3089	Ocean Angular Momentum	O	E				1/day	:: Ocean	:: Ocean
		3090	Ocean Current Circulation, Large-scale,	O	E				1/(1-3 mo) [few mo]	4000 km :: Ocean	N/A :: Sfc
		3110	Sea_Level Height	O	E				1/yr	2 x 2 dg :: Ocean	N/A :: Sfc
		3124	Sea_Level Height	O	E				1/mo	2 x 2 dg :: Ocean	N/A :: Sfc
		1520	Pressure, Sfc	I	E				4/day	50 km :: G	N/A :: Sfc
		1717	Wind Speed, Sea_sfc	I	E				4/day	50 km :: Ocean	N/A :: Sfc
		1745	Wind Stress	I	E				4/day	50 km :: Ocean	N/A :: Sfc
		1825	Humidity Profile	I	E				4/day	50 km :: G	1 km :: Atmos
		9	sea level data	I	N	ALT	ERS-1,2	BL			
		31	geophysical data	I	N	SEASAT	BL	BL			
		35	sea level and other data	I	N	ALT	TOPEX	BL	1/(10 day)	7 km :: G	
		59	altimetry	I	N	ALT	GEOSAT	BL			
		84	temperature profiles	I	N		in situ (radiosonde)	BL			
		88	IERS polar motion time-series (based on SLR and VLBI techniques)	I	N		in situ	BL			
		89	UT/CSR SLR and IRIS VLBI independent polar motion time-series	I	N		in situ	BL			
		302	angular momentum estimates	I	N		model	BL			
		303	tracking data	I	N	SLR	LAGEOS-1,-2,-3	BL			
		304	tracking data	I	N	SLR	Eiallon	BL			
		305	tracking data	I	N	SLR	Stella	BL			
		306	tracking data	I	N	SLR	Ajisi	BL			
		307	tracking data	I	N	SLR	Starlette	BL			
		308	geophysical data records	I	N	Altimeter	SALT	BL			
		309	digital world grid in various forms and sizes	I	N		model	AL		-0.5 dg :: G	
		310	standard reference models (ocean basin outlines & depth, land, af	I	N		model	AL			
		749	humidity profiles	I	N		in situ (radiosonde)	BL			
		751	IERS length-of-day time-series (based on SLR and VLBI techniques)	I	N		in situ	BL			
		752	UT/CSR SLR and IRIS VLBI independent length-of-day time-series	I	N		in situ	BL			
		779	meteorological data	I	N		in situ	BL			
		780	geophysical data records	I	N	Altimeter	ERS-1,-2	BL			
		781	geophysical data records	I	N	Altimeter	TOPEX / POSEIDON	BL			
		782	geophysical data records	I	N	Altimeter	GEOS-3	BL			
		783	geophysical data records	I	N	Altimeter	SEASAT	BL			
		784	geophysical data records	I	N	Altimeter	GEOSAT	BL			
Clouds and Earth's Radiant Energy System (621)	Wielicki	1392	Cloud Height, Base	O	E				18/day [d,n]	25 km :: R	0.1 km :: Atmos
		1428	Cloud Height, Top	O	E				18/day [d,n]	25 km :: R	0.1 km :: Atmos
		1766	Cloud Drop Phase	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS / Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Clouds and Earth's Radiant Energy System (621)	Wielicki	1773	Cloud Drop Size	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos
		1916	Cloud Liq. water Content	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos
		2067	Cloud Cover	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos
		2151	Radiative Flux Divergence, LW	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos
		2153	Radiative Flux Divergence, SW	O	E				9/day [d]	25 km :: R	:: Atmos
		2167	Radiative Flux, LW, Down	O	E				18/day [d,n]	25 km :: R	N/A :: Sfc
		2179	Radiative Flux, LW, Net	O	E				18/day [d,n]	25 km :: R	N/A :: Sfc
		2198	Radiative Flux, LW, Up	O	E				18/day [d,n]	25 km :: R	N/A :: TOA
		2199	Radiative Flux, LW, Up	O	E				18/day [d,n]	25 km :: R	N/A :: Sfc
		2220	Radiative Flux, SW, Down	O	E				9/day [d]	25 km :: R	N/A :: Sfc
		2228	Radiative Flux, SW, Net	O	E				9/day [d]	25 km :: R	N/A :: Sfc
		2244	Radiative Flux, SW, Up	O	E				9/day [d]	25 km :: R	N/A :: Sfc
		2245	Radiative Flux, SW, Up	O	E				9/day [d]	25 km :: R	N/A :: TOA
		2315	Cloud Optical Depth, LW	O	E				18/day [d,n]	25 km :: R	N/A :: Atmos
		2320	Cloud Optical Depth, SW	O	E				9/day [d]	25 km :: R	N/A :: Atmos
		1386	Cloud Height, Base	I	E				6/day [d,n]	25-100 km :: G	0.1 km :: Atmos
		1387	Cloud Height, Base	I	E				1/16 day	0.2 km :: R	0.1 km :: Atmos
		1388	Cloud Height, Base	I	E				2/day [d,n]	50 km :: R	0.1 km :: Atmos
		1420	Cloud Height, Top	I	E				2/day [d,n]	50 km :: R	0.1 km :: Atmos
		1421	Cloud Height, Top	I	E				1/16 day	0.2 km :: R	0.1 km :: Atmos
		1422	Cloud Height, Top	I	E				6/day [d,n]	25-100 km :: G	0.1 km :: Atmos
		1585	Temperature Profile	I	E				4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		1673	Wind Velocity	I	E				4/day [d,n]	1.25 dg :: G	1 km :: Atmos
		1760	Cloud Drop Phase	I	E				1/16 day	03-10 km :: R	N/A :: Atmos
		1761	Cloud Drop Phase	I	E				6/day [d,n]	25-100 km :: G	N/A :: Atmos
		1771	Cloud Drop Size	I	E				1/16 day	03-10 km :: R	N/A :: Atmos
		1772	Cloud Drop Size	I	E				6/day [d,n]	25-100 km :: G	N/A :: Atmos
		1826	Humidity Profile	I	E				4/day [d,n]	1.25 dg :: G	2 km :: Atmos
		1906	Cloud Liq. water Content	I	E				2/day [d,n]	12-25 km :: G	N/A :: Atmos
		1907	Cloud Liq. water Content	I	E				6/day [d,n]	25-100 km :: G	N/A :: Atmos
		1940	Precipitation Amount	I	E				4/day [d,n]	25-50 km :: G	N/A :: Trop
		2025	Anisotropy, LW, broadband, Clear-sky	I	E					10 dg [Angle] :: G/cr	N/A :: Sfc, Atmos
		2026	Anisotropy, LW, broadband, Cloudy-sky	I	E					10 dg [Angle] :: G/cld	N/A :: Sfc, Atmos
		2043	Land_sfc Reflectance, Bi-directional, SW, Broadband, (BRDF)	I	E				1/day [d]	0.2-2km :: R	N/A :: Sfc, Atmos
		2044	Land_sfc Reflectance, Bi-directional, SW, Broadband, (BRDF)	I	E					10 dg [Angle] :: G	N/A :: Sfc, Atmos
		2061	Cloud Cover	I	E				6/day [d,n]	25-100 km :: G	N/A :: Atmos
		2077	Cloud Cover	I	E				1/16 day	30 m :: R	N/A :: Atmos
		2120	Land_sfc Emissivity	I	E				2/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		2150	Radiative Flux Divergence, LW	I	E				6/day [d,n]	1.25 dg :: G	:: Atmos
		2152	Radiative Flux Divergence, SW	I	E				3/day [d]	1.25 dg :: G	:: Atmos
		2165	Radiative Flux, LW, Down	I	E				6/day [d,n]	1.25 dg :: G	N/A :: Sfc
		2175	Radiative Flux, LW, Net	I	E				6/day [d,n]	1.25 dg :: G	N/A :: Sfc
		2194	Radiative Flux, LW, Up	I	E				6/day [d,n]	1.25 dg :: G	N/A :: TOA
		2195	Radiative Flux, LW, Up	I	E				6/day [d,n]	1.25 dg :: G	N/A :: Sfc
		2218	Radiative Flux, SW, Down	I	E				3/day [d]	1.25 dg :: G	N/A :: Sfc
		2226	Radiative Flux, SW, Net	I	E				3/day [d]	1.25 dg :: G	N/A :: Sfc
		2241	Radiative Flux, SW, Up	I	E				3/day [d]	1.25 dg :: G	N/A :: TOA

Appendix Q: Algorithm Summary Table for IDS Investigators

Algorithm Name (#)	Investigator	Prod #	Product Name	Prod Type	EOS/ Non	Instrument	Platform	Time Frame	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.
Clouds and Earth's Radiant Energy System (621)	Wielicki	2242	Radiative Flux, SW, Up	I	E				3/day [d]	1.25 dg :: G	N/A :: Sfc
		2289	Aerosol Optical Depth	I	E				1/day	1.25 dg :: G	N/A :: Atmos
		2314	Cloud Optical Depth, LW	I	E				6/day [d,n]	25-100 km :: G	N/A :: Atmos
		2319	Cloud Optical Depth, SW	I	E				3/day [d]	25-100 km :: G	N/A :: Atmos
		2355	Level-1B Radiance, AVHRR(ESA?)	I	E				2/day [d,n]	1 km :: R	N/A :: Atmos
		2358	Level-1B Radiance, CERES	I	E				6/day [d,n]	25 km :: R	N/A :: Atmos
		2390	Level-1B Radiance, MODIS	I	E				2/day [d,n]	0.25-1 km :: R	N/A :: Atmos
		2423	Cloud Reflectance, Bi-directional, (BRDF)	I	E				1/day	0.2-2 km :: R	N/A :: Cloud
		2479	Land_sfc Temperature, Skin	I	E				4/day [d,n]	1.25 dg :: Land	N/A :: Sfc
		2521	Sea_sfc Temperature (SST)	I	E				1/wk	1.25 dg :: Ocean	N/A :: Sfc
		2847	Topographic Elevation, Land_sfc	I	E				1/mission	10 km :: Land	N/A :: Sfc
		2919	Sea_Ice Cover	I	E				1/day	50 km :: Ocean/Cryo	N/A :: Sfc
		3016	Snow Cover	I	E				1/day	50 km :: Land	N/A :: Sfc
		3698	Cloud Reflectance, Bi-directional, SW_Broadband, (BRDF)	I	E	CERES	TRM,AM,PM	AL		10 dg [Angle] :: G	N/A :: Atmos
		27	sea surface temperature (SST)	I	N	AVHRR	NOAA	BL		30 km :: R(1000km)	
		674	radiance: 3 bands	I	N	ERBE	FIRE	BL	4/day	1 km :: R(1000km)	
		675	radiance: 5 bands	I	N	AVHRR/HRPT	NOAA/FIRE	BL	4/day	1 km :: R(1000km)	
		676	radiance: 8 bands	I	N	HIRS	FIRE	BL	4/day	17 km :: R(1000km)	
		677	radiance: 2 bands	I	N	VISSR	GOES / FIRE	BL	24/day	1, 8 km :: R(1000km)	
		678	cloud properties	I	N		ISCCP	BL	8/day	30 km :: R(1000km)	
		679	radiance: 7 bands	I	N	TM	Landsat	BL	10 scenes	30 m :: R(180km)	
		680	temperature profiles	I	N		FIRE	BL	(2-8)/day	2.5 deg :: R(1000km)	
		681	humidity profiles	I	N		FIRE	BL	(2-8)/day	2.5 deg :: R(1000km)	
		682	radiative fluxes (LW,SW), surface	I	N		FIRE	BL	1 min	2-18 km :: variable	
		683	cloud base/height	I	N	ground Lidar	FIRE	BL	1 min	1-4 km :: variable	
		684	cloud particle size/phase	I	N	probes	in situ (aircraft) / FIRE	BL	5 sec	0.5 km :: variable	
		685	radiative fluxes (LW,SW)	I	N		in situ (aircraft) / FIRE	BL	5 sec	0.5 km :: variable	
		686	radiance: 5 bands	I	N	AVHRR-LAC	NOAA	BL	1/day	1 km :: Polar	
		687	radiance: 7 bands	I	N	TM	Landsat	BL	100 scenes	30 m :: Polar(180km)	
		688	radiative fluxes, TOA	I	N	ERBE		BL	(2-4)/day	2.5 deg :: G	
		689	cloud properties	I	N		ISCCP	BL	8/day	2.5 deg :: G	
		690	cloud properties	I	N	THUR	Nimbus-7	BL	2/day	4.5 deg :: G	
		691	radiative fluxes, surface	I	N	SRB		BL	8/day	5 deg :: G	
		692	radiative fluxes, TOA	I	N	ERBE	Nimbus-6,7	BL	2/day	10 deg :: G	
		693	aerosol optical depth	I	N	AOT		BL	17 days	1 deg :: Ocean	
		694	temperature profile	I	N		in situ	AL	4/day	1.25 deg :: G,R(10 deg)	
		695	water vapor profile	I	N		in situ	AL	4/day	1.25 deg :: G,R(10 deg)	
		696	wind profile	I	N		in situ	AL	4/day	1.25 deg :: G	
		697	land surface temperature	I	N		in situ	AL	4/day	1.25 deg :: R(10 deg)	
		698	land surface temperature	I	N		in situ	AL	4/day	0.25 deg :: R(10 deg)	
		699	radiance: 10 bands	I	N	VISSR	GOES	AL	12/day	4 km :: R(10deg)	

**Non-EOS Input Requirements  
Listed by  
Product Number**

Appendix R

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**





Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
1	wind velocity; NSCAT; ADEOS	NSCAT	ADEOS	JPL	BL	598; 599; 601; 609; 612; 619	Bates; Brewer; Hartmann; Liu; Murakami; Srokosz
2	geophysical data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	PLDS	BL	562; 573; 577; 598; 605; 610; 611; 614; 615; 874; 881; 882	ASTER; Brewer; HIRIS; Isacks; Moore; Mouginitis-Mark; Richey/Baistia; Schmel
3	humidity; SSM/I; DMSP	SSM/I	DMSP	NODS	BL	599; 601; 612; 619; 622	Bates; Dickinson; Hartmann; Murakami; Srokosz
4	precipitation; SSM/I; DMSP	SSM/I	DMSP	NODS	BL, PL	600; 601; 612; 619	Barron; Bates; Murakami; Srokosz
5	surface wind speed; SSM/I; DMSP	SSM/I	DMSP	IOSDL	BL, PL	601; 612; 619	Bates; Murakami; Srokosz
6	earth radiation budget; ERBE; NOAA	ERBE	NOAA	NCDS, LARC	BL, AL, PL	599; 600; 603; 607; 617; 622	Barron; Dickinson; Hansen; Hartmann; Lau; Sellers
7	geophysical data; ERS-1		ERS-1	ESA	BL	598	Brewer
8	wind velocity; SCATT; ERS-1	SCATT	ERS-1	ESA	BL	597; 601; 607; 612; 619	Bates; Lau; Murakami; Rothrock; Srokosz
9	sea level data; ALT; ERS-1, 2	ALT	ERS-1, 2	ESA	BL, PL	601; 619; 620	Bates; Srokosz; Tapley
10	surface features; SAR; ERS-1	SAR	ERS-1	ESA	BL, PL	601; 610; 611; 619	Bates; Moore; Mouginitis-Mark; Srokosz
11	geophysical data; IR instrument; GMS	IR instrument	GMS	NASDA	BL	607; 612; 622	Dickinson; Lau; Murakami
12	cloud data; ISCCP		ISCCP	GISS	BL	599; 600; 612; 614; 617	Barron; Hartmann; Murakami; Richey/Baistia; Sellers
13	cloud data; in situ		in situ	NESDIS	BL	558	MODIS
14	sounding data; VAS; GOES	VAS	GOES	NESDIS	BL, PL	577; 600	ASTER; Barron
15	geophysical data; JERS-1		JERS-1	NASDA	BL	598; 605	Brewer; Isacks
16	scene radiances; TM; Landsat	TM	Landsat	EDC, EOSAT	BL	577; 596; 600; 603; 605; 610; 611; 614; 617; 851; 853; 865; 870; 871; 876; 889; 911	ASTER; Barron; Chilar; HIRIS; Hansen; Isacks; MISR; Moore; Mouginitis-Mark; Richey/Baistia; Sellers
17	geophysical data; Meteosat		Meteosat	ESA	BL	577; 617	ASTER; Sellers
18	ocean color / chlorophyll data; CZCS; Nimbus-7	CZCS	Nimbus-7	NSSDC	BL	512; 559; 601; 603; 854; 855; 856; 857; 858; 859	Bates; HIRIS; Hansen; MODIS
19	atmospheric chemistry data; LIMS; Nimbus-7	LIMS	Nimbus-7	NSSDC	BL	601	Bates
20	aerosols; SAM II; Nimbus-7	SAM II	Nimbus-7	NSSDC	BL	601; 616	Bates; Schoeberl
21	O3 data; SBUV; Nimbus-7	SBUV	Nimbus-7	NSSDC	BL	616	Schoeberl
22	geophysical data; SMMR; Nimbus-7	SMMR	Nimbus-7	NSSDC	BL	600; 601; 606; 607; 617	Barron; Bates; Kerr/Sorooshian; Lau; Sellers
23	O3 data; TOMS; Nimbus-7	TOMS	Nimbus-7	NSSDC	BL	515; 543; 545; 546; 547; 548; 549; 551; 553; 554; 555; 557; 601; 616; 914; 916	Bates; MODIS; Schoeberl
24	cloud data; AVHRR; NOAA	AVHRR	NOAA	NESDIS	PL	600; 879; 880; 881; 882; 883; 884	Barron; HIRIS
25	radiance; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS	BL	558; 601; 603; 611	Bates; Hansen; MODIS; Mouginitis-Mark
26	vegetation index (NDVI); AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL, PL	607; 610	Lau; Moore
27	sea surface temperature (SST); AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL, PL	580; 597; 599; 601; 607; 612; 621	Bates; Hartmann; Lau; MIMR; Murakami; Rothrock; Wielicki
28	sounding data; TOVS; NOAA	TOVS	NOAA	NESDIS	BL	510; 597; 601; 607; 616; 991	AIRS; AIRS/AMSU-A/MHS; Bates; Lau; Rothrock; Schoeberl
29	aerosol profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC	BL	611; 616	Mouginitis-Mark; Schoeberl
30	geophysical data; SASS-1	SASS-1		NODS	BL	601	Bates
31	geophysical data; SEASAT		SEASAT	NODS	BL	599; 601; 620	Bates; Hartmann; Tapley
32	ocean color data; SeaWiFS; Seastar	SeaWiFS	Seastar	NSSDC	BL, PL	512; 559; 598; 854; 855; 856; 857; 858; 859; 860; 862	Brewer; HIRIS; MODIS
33	scene radiances; SPOT		SPOT	CNES	BL, AL, PL	548; 573; 605; 610; 611; 614; 618; 851; 853; 865; 874; 911	ASTER; HIRIS; Isacks; MISR; MODIS; Moore; Mouginitis-Mark; Richey/Baistia; Simard
34	geophysical data; SSM/I; DMSP	SSM/I	DMSP	NSIDC	BL	600; 601; 610; 622	Barron; Bates; Dickinson; Moore
35	sea level and other data; ALT; TOPEX	ALT	TOPEX	JPL	BL	601; 607; 609; 612; 620	Bates; Lau; Liu; Murakami; Tapley
36	precipitation data; TRMM		TRMM	NSSDC	BL	601; 607; 622	Bates; Dickinson; Lau
37	atmospheric chemistry data; UARS		UARS	NSSDC	BL	612	Murakami

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
38	geophysical data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	JPL	BL	572; 605; 614	ASTER; Isacks; Richey/Batista
39	climatology (T, H, P) data; in situ		in situ	ECMWF	BL, PL	597; 599; 600; 601; 622	Barron; Bates; Dickinson; Hartmann; Rothrock
40	glaciological data (elevation)			NSF/DPP	BL	995	GLRS-A
41	cloud / boundary layer height data; Lidar; in situ (aircraft, ground)	Lidar	in situ (aircraft, ground)	MSFC	BL	611	Mouginis-Mark
42	radiance; in situ		in situ		BL, PL	512; 559	MODIS
43	geophysical data; ISCCP / FIRE		ISCCP / FIRE	NCDS	BL	599; 607	Hartmann; Lau
44	model output/analysis			NMC, ECMWF, GSFC	BL	513; 523; 526; 528; 530; 533; 534; 616; 622; 721; 901; 902; 903	Dickinson; MODIS; MOPITT; SOLSTICE; Schoeberl
45	precipitation; in situ		in situ	NCDC	BL, PL	601; 617	Bates; Sellers
46	temperature profiles; in situ (radiosonde)		in situ (radiosonde)	NCDC	BL, PL	510; 533; 601; 603; 606; 611; 612	AIRS/AMSU-A/MHS; Bates; Hansen; Kerr/Sorooshian; MODIS; Mouginis-Mark; Murakami
47	geophysical data; in situ (ship)		in situ (ship)	NCDC	BL	510; 543; 580; 599; 601; 609; 810	AIRS/AMSU-A/MHS; Bates; Hartmann; Liu; MIMR; MODIS; STIKSCAT
48	geophysical data; in situ (ship)		in situ (ship)	FNOC	BL, PL	579; 601; 609; 810	Bates; Liu; MIMR; STIKSCAT
49	sea surface temperature (SST)		in situ (ship)	CSIRO	BL, PL	601	Bates
50	surface air pressure			NMC	BL, PL	515; 543; 545; 546; 547; 548; 549; 551; 552; 553; 554; 555; 557; 558; 561; 601; 914; 916	Bates; MODIS
51	surface wind speed; in situ		in situ	NMC	PL	511; 515; 543; 545; 546; 547; 548; 549; 551; 552; 553; 554; 555; 557; 558; 561; 601; 612; 914; 916	Bates; MODIS; Murakami
52	wind climatology			NOAA/WPL	BL	580; 612	MIMR; Murakami
53	wind speed; in situ (buoy)		in situ (buoy)	NOAA DBC	BL	543; 580; 601; 609; 810	Bates; Liu; MIMR; MODIS; STIKSCAT
54	multispectral scanner data; MAS; in situ (aircraft)	MAS	in situ (aircraft)	GSFC	BL	997	MODIS
55	geophysical data; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)		BL	606	Kerr/Sorooshian
56	radiance; HIRS2; NOAA	HIRS2	NOAA	NESDIS	BL	510	AIRS/AMSU-A/MHS
57	radiance; SSU; NOAA	SSU	NOAA	NESDIS	BL	616	Schoeberl
58	geophysical data; MISR simulator; in situ (aircraft)	MISR simulator	in situ (aircraft)		BL	909; 910; 911; 912; 913	MISR
59	allimetry; ALT; GEOSAT	ALT	GEOSAT	Navy	BL	618; 620	Simard; Tapley
60	allimetry; ALT; ERS-1	ALT	ERS-1	ESA	BL	618	Simard
61	ice sheet topography				BL	995	GLRS-A
62	allimetry; laser; in situ (aircraft)	laser	in situ (aircraft)		BL	995	GLRS-A
63	allimetry; laser; Shuttle	laser	Shuttle	JPL	BL	995	GLRS-A
64	ocean salinity; in situ		in situ		BL	609	Liu
65	GLA-assimilated data			NMC	BL	607	Lau
66	geophysical data; FOGIE		FOGIE	NMC	BL	617	Sellers
67	geophysical data; in situ (radiosonde)		in situ (radiosonde)	NWS	BL	599; 601; 606; 609; 612	Bates; Hartmann; Kerr/Sorooshian; Liu; Murakami
68	meteorological data (including diurnal cycle analysis); GMS; EMEX	GMS	EMEX		BL	599; 600	Barron; Hartmann
69	Eddy General Circulation Model (EGCM); GCMs; model		model	GISS, NCAR	BL	609	Liu
70	geophysical data; GEWEX		GEWEX		BL	609; 614	Liu; Richey/Batista
71	geophysical data; WOCE		WOCE		BL	598; 609	Brewer; Liu
72	pressure-height field; model analysis (NMC)		model analysis (NMC)	NMC	AL	731	SAFIRE
73	meteorological data (humidity, etc.); MSR; MOS-1, MOS-2	MSR	MOS-1, MOS-2	NASDA	BL	612	Murakami

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
74	geophysical data; VTIR	VTIR			BL	612	Murakami
75	land surface temperature				BL	513; 528; 530; 531	MODIS
76	soil types				BL	610	Moore
77	snow cover; SMMR; Nimbus-7	SMMR	Nimbus-7		BL	612; 617	Murakami; Sellers
78	precipitation/storm data; radar; in situ / EMEX	radar	in situ / EMEX		BL	599	Hartmann
79	geophysical data; SAR; SIR-C	SAR	SIR-C		BL	605	Isacks
80	soil maps (7.5 min topo)			USDA	BL	605	Isacks
81	geophysical records with reference ephemeris; GPS		GPS		BL	994; 995	GGI; GLRS-A
82	geophysical data; TOGA		TOGA		BL	607; 609	Lau; Liu
83	geophysical data; COARE		COARE	ECMWF	BL	601	Bates
84	temperature profiles; in situ (radiosonde)		in situ (radiosonde)	NMC	BL	510; 580; 617; 620	AIRS/AMSU-A/MHS; MIMR; Sellers; Tapley
85	limb viewing data; ATMOS; Shuttle	ATMOS	Shuttle	JPL	BL	616	Schoeberl
87	tide gauge sea level values; in situ		in situ	IERS	BL	992; 992	ALT
88	IERS polar motion time-series (based on SLR and VLBI techniques); in situ		in situ	IERS	BL	620	Tapley
89	UT/CSR SLR and IRIS VLBI independent polar motion time-series; in situ		in situ	IERS	BL	620	Tapley
90	climatology station records; in situ		in situ	NCDC	BL	607; 609; 610; 617	Lau; Liu; Moore; Sellers
94	geophysical data; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)	Geology MAC	BL	572; 600; 605; 611	ASTER; Barron; Isacks; Mouginsis-Mark
95	down-looking dual frequency radio data; PRARE		PRARE		BL	994	GGI
96	solar irradiance; SMM		SMM	NASA	BL	607	Lau
97	solar activity (sunspot, flare); SMM		SMM	NASA	BL	994	GGI
100	geophysical data; AMRIR; NOAA	AMRIR	NOAA	NESDIS	BL, PL	603	Hansen
101	geophysical data; JGOFS		JGOFS		BL	512; 559; 598	Brewer; MODIS
102	ice motion; SAR; ERS-1	SAR	ERS-1	ESA	BL	597	Rothrock
106	scene radiances; TM simulator (NS-001); in situ (aircraft)	TM simulator (NS-001)	in situ (aircraft)	NASA	BL	611	Mouginsis-Mark
108	surface features; SAR; SIR-B	SAR	SIR-B		BL	619	Srokosz
109	geophysical data; VISSR; GOES	VISSR	GOES	NESDIS	BL	577; 607; 614; 619	ASTER; Lau; Richey/Batista; Srokosz
110	geophysical data; AIS; in situ (aircraft)	AIS	in situ (aircraft)		BL	605; 611	Isacks; Mouginsis-Mark
111	ocean color data; FLI; in situ (aircraft)	FLI	in situ (aircraft)		BL	610	Moore
112	sky radiance data (SBRDF)			UCL	BL	517; 806; 808	MODIS
113	digital elevation model; SPOT		SPOT	CNES	BL, AL	517; 562; 611; 808	ASTER; MODIS; Mouginsis-Mark
114	digital elevation model; ERS-1		ERS-1	ESA	BL, AL	517; 808	MODIS
115	digital elevation model; JERS-1		JERS-1	NASDA	BL, AL	517; 808	MODIS
118	storm data; in situ / STREX		in situ / STREX		BL	599	Hartmann
120	radiance; MSU; NOAA	MSU	NOAA	NESDIS	BL	991	AIRS
121	cloud optical thickness; in situ (aircraft)		in situ (aircraft)		AL	536	MODIS
122	cloud liquid/ice content; in situ (aircraft)		in situ (aircraft)		AL	533	MODIS
123	incident spectral irradiance; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 599; 914; 916	Hartmann; MODIS
124	downwelling spectral radiance; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 599; 914; 916	Hartmann; MODIS
125	upwelling spectral radiance; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 599; 914; 916	Hartmann; MODIS

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
126	water-leaving radiances; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
127	spectral beam attenuation coefficient; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
128	diffuse attenuation coefficient-downwelling radiation; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
129	diffuse attenuation coefficient-upwelling radiation; in situ (ship, buoy)		in situ (ship, buoy)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
130	phytoplankton; in situ (ship)		in situ (ship)		AL	515; 545; 547; 549; 551; 553; 559	MODIS
131	spectral reflectance factor; in situ (ship)		in situ (ship)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
132	phytoplankton pigment: chlorophyll-a and phaeopigment-a; in situ (ship)		in situ (ship)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
133	phytoplankton pigment; in situ (ship)		in situ (ship)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
134	humic and fulvic acids; in situ (ship)		in situ (ship)		AL	515; 545; 547; 559	MODIS
135	particle absorption coefficient; in situ (ship)		in situ (ship)		AL	515; 545; 547; 549; 551; 553; 559	MODIS
136	detritus absorption coefficient; in situ (ship)		in situ (ship)		AL	515; 545; 547; 549; 551; 553; 559	MODIS
137	backscattering coefficient; in situ (ship)		in situ (ship)		AL	515; 545; 547; 549; 551; 553; 559	MODIS
138	total dissolved organic carbon; in situ (ship)		in situ (ship)		AL	515; 545; 547; 549; 551; 553; 559	MODIS
139	spectral solar atmospheric transmission; in situ (ship, station)		in situ (ship, station)		AL	515; 544; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
140	fluorescence and other data; AOL; in situ (aircraft)	AOL	in situ (aircraft)		BL, AL, PL	515; 545; 547; 549; 551; 553; 559	MODIS
141	radiance-0.41 to 0.75 um; in situ (aircraft)		in situ (aircraft)		AL	515; 545; 546; 547; 549; 551; 553; 554; 555; 559; 914; 916	MODIS
142	chlorophyll concentration and others (mid-Atlantic Bight); in situ (ship)		in situ (ship)		AL	547	MODIS
143	fluorescence line magnitude @685 um; in situ (ship)		in situ (ship)		AL	546; 914; 916	MODIS
144	chlorophyll fluorescence (mid-Atlantic Bight); in situ (ship)		in situ (ship)		AL	546; 914; 916	MODIS
145	PAR (400 - 700 nm); in situ (ship, buoy)		in situ (ship, buoy)		AL	551; 553	MODIS
146	primary productivity (14-C); in situ (ship, buoy)		in situ (ship, buoy)		AL	553	MODIS
147	IR surface brightness temperatures; in situ (ship)		in situ (ship)		AL	543	MODIS
148	detached coccolith concentration; in situ (ship)		in situ (ship)		AL	549	MODIS
149	total suspended matter concentration; in situ (ship)		in situ (ship)		AL	855; 859	HIRIS
150	organic suspended matter concentration; in situ		in situ (ship)		AL	855; 859	HIRIS
151	inorganic suspended matter concentration; in situ (ship)		in situ (ship)		AL	855; 859	HIRIS
152	chlorophyll, phycoerythrin, and dissolved organic matter fluorescence; AOL; in situ (aircraft)	AOL	in situ (aircraft)		BL	548	MODIS
153	water leaving radiances; in situ (aircraft)		in situ (aircraft)		BL	548	MODIS
154	latent heating profiles; TRMM		TRMM	NSSDC		601	Bates
155	cloud motion winds; operational satellites		operational satellites	GISS		601	Bates
156	atmospheric chemistry data; in situ (rocketsonde)		in situ (rocketsonde)	NCDC		601; 612; 616	Bates; Murakami; Schoeberl
157	temperature analysis			NMC_ECMWF		597; 601; 607; 616; 617; 622; 701	Bates; Dickinson; HIRDLS; Lau; Rothrock;
158	geopotential height analysis; model		model	NMC_ECMWF		601; 617; 702	Bates; HIRDLS; Sellers
159	wind analysis			NMC_ECMWF		601; 616; 617; 622; 741	Bates; Dickinson; Schoeberl; Sellers; TES

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo ID	Recipient Instrument / IDS Team
160	moisture analysis			NMC/ECMWF		601; 607; 616; 617; 622	Bates; Dickinson; Lau; Schoeberl; Sellers
161	sea level pressure analysis			NMC/ECMWF		601; 616; 622	Bates; Dickinson; Schoeberl
162	weather forecasts (6hr,12hr,18hr,24hr); in situ		in situ	NMC/ECMWF		601; 616; 622	Bates; Dickinson; Schoeberl
163	sea soundings; in situ (ship)		in situ (ship)			601	Bates
164	radiance; AVHRR; NOAA	AVHRR	NOAA	NESDIS		603; 607; 607	Hansen; Lau
165	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	AL	573; 596; 605; 610; 612; 614; 617; 618; 622	ASTER; Cihlar; Dickinson; Isacks; Moore; Murakami; Richey/Baista; Sellers; Simard
166	radiance; VAS/VISSR; GOES	VAS/VISSR	GOES	NESDIS		607; 612; 617	Lau; Murakami; Sellers
167	radiance; HIRS; NOAA	HIRS	NOAA	NESDIS		503; 603	AIRS/AMSU-A/MHS; Hansen
169	backscatter coefficient; Weather radar; in situ	Weather radar	in situ	NESDIS		596; 599; 607	Cihlar; Hartmann; Lau
170	backscatter coefficient; SAR; ERS-1	SAR	ERS-1	ESA		596	Cihlar
171	backscatter coefficient; SAR; JERS-1	SAR	JERS-1	NASDA		596	Cihlar
172	backscatter coefficient; SAR; in situ (aircraft)	SAR	in situ (aircraft)	JPL		596	Cihlar
173	backscatter coefficient; SAR; RADARSAT	SAR	RADARSAT	CCRS		596	Cihlar
174	backscatter coefficient; SAR; SIR-C	SAR	SIR-C	NASA		596	Cihlar
176	reflectance factor; AMRIR; NOAA	AMRIR	NOAA	NESDIS		596	Cihlar
177	radiance based calibration; ER-2		ER-2	NASDA?		573; 874	ASTER; HIRIS
178	global cloud climatology scenes; JAS		JAS	NASDA?		577	ASTER
179	global cloud climatology scenes; Japansat		Japansat	NASDA?		577	ASTER
180	precipitation data; rain gage; in situ	rain gage	in situ	TBD		600; 607	Barron; Lau
181	emissivity data; in situ		in situ	TBD		562	ASTER
182	calibration data for ASTER; SWIR spectrometer; in situ	SWIR spectrometer	in situ	NASA		573; 874	ASTER; HIRIS
183	calibration data for ASTER; spectrometer; in situ (helicopter)	radiation spectrometer	in situ (helicopter)	NASA		573; 874	ASTER; HIRIS
184	radiation budget components in snow covered regions			NASA?		541	MODIS
185	aerosol radiation; in situ		in situ			524; 525; 526; 527	MODIS
186	directional radiance, spectral irradiance, etc.; in situ		in situ			540	MODIS
187	digital elevation model (surface topography)			DMA	AL	600; 605; 865	Barron; HIRIS; Isacks
188	radiance; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS	AL	610; 612; 614; 617; 622	Dickinson; Moore; Murakami; Richey/Baista; Sellers
189	precipitation; MSU; NOAA	MSU	NOAA	NESDIS	BL	593; 612	Abbott; Murakami
190	liquid water content; SSM/I; DMSP	SSM/I	DMSP	MSFC7	BL, PL	622	Dickinson
191	radiance for SST; ATSR	ATSR			PL	543	MODIS
192	optical and constituent data sets; in situ		in situ			515; 548; 854; 855; 856; 857; 858; 859; 860	HIRIS; MODIS
193	fluorescence line height (FLH); FLICASI	FLICASI		Borstad/Gower	BL	548	MODIS
194	calibration/verification optical data; in situ		in situ			515; 548	MODIS
195	oceanographic data; in situ (optical buoy system)		in situ (optical buoy system)		BL, PL	593	Abbott
196	scene radiances; TMS; in situ (aircraft)	TMS	in situ (aircraft)			606	Kerr/Sorooshian
197	ground data; transmissionometer; in situ	transmissionometer	in situ	GSFC		537	MODIS
198	thermal data; in situ (aircraft)		in situ (aircraft)			539	MODIS
199	BRDFs; LTER		LTER	Univ. of Montana		521	MODIS
200	climate data; in situ		in situ		AL, PL	521; 605	Isacks; MODIS
201	snow reflectance				BL	541	MODIS

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Alge_ID	Recipient Instrument / IDS Team
202	ground radiances; in situ		in situ		BL, AL, PL	541	MODIS
203	ground radiances; MMR; in situ	MMR	in situ	GSFC		541	MODIS
204	fluorescence response of phytoplankton; Laser-stimulated; in situ	Laser-stimulated	in situ	Bortstad/Cowles	BL	593	Abbott
205	fluorescence mapping data; CASI; in situ (ship)	CASI	in situ (ship)	Bortstad/Cowles	BL	593	Abbott
206	chlorophyll fluorescence; in situ (ship)		in situ (ship)	CalCOFI	BL	593	Abbott
207	eddy fields and interactions with CA current; in situ (ship)		in situ (ship)	ONR	BL	593	Abbott
208	geophysical data (low resolution); SAR; in situ (aircraft)	SAR	in situ (aircraft)	NASA		596	Cihlar
209	surface wind; in situ (buoy)		in situ (buoy)			609	Liu
210	surface wind; CEAREX		CEAREX			597	
211	surface temperature; TOVS; NOAA	TOVS	NOAA	NESDIS		597; 612	Rothrock
212	surface temperature; AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL, PL	597	Murakami; Rothrock
213	humidity soundings; CEAREX		CEAREX	CEAREX, Russian Sns.		597; 609	Rothrock
214	cloud parameters; TOVS; NOAA	TOVS	NOAA	NESDIS		597	Liu; Rothrock
215	cloud parameters; ERBI	ERBI				597	Rothrock
216	cloud parameters; CEAREX		CEAREX	CEAREX, Russian Sns.		597	Rothrock
217	surface radiation flux (net shortwave); ERBI	ERBI		CEAREX, Russian Sns.		597	Rothrock
218	surface radiation flux (net shortwave); CEAREX		CEAREX	CEAREX, Russian Sns.		597	Rothrock
219	Levinus climatology database			NODC		597; 598	Brewer; Rothrock
220	bathymetry; in situ		in situ	NRL		597	Rothrock
221	river inflow; in situ		in situ	Soviet Atlas, stations		597	Rothrock
222	precipitation/storm data; radar; TAMEX	radar	TAMEX		BL	599	Hartmann
223	geophysical data; TRMM		TRMM		BL	599; 601; 614	Bates; Hartmann; Richey/Bausta
224	surface albedo; AMRIR; NOAA	AMRIR	NOAA	NESDIS	BL, PL	603; 612	Hansen; Murakami
225	surface air temperature; AMRIR; NOAA	AMRIR	NOAA	NESDIS	BL, PL	603	Hansen; Murakami
226	geophysical data; GEOSAT		GEOSAT	Navy	BL	603; 607; 609	Hansen; Liu; Liu
227	geophysical data; SMMR; Nimbus-7	SMMR	Nimbus-7		BL	603	Hansen
228	seismicity and seismic profiles; in situ		in situ		BL	605; 605	Isacks
229	geological maps (1:50,000 - 1:1,000,000)				BL	605	Isacks
230	geochemical analyses				BL	605	Isacks
231	vegetation maps (1:50,000 - 1:1,000,000)				BL	605	Isacks
232	surface photography (1:10,000 - 1:200,000); operational satellites		operational satellites		BL	605	Isacks
233	age determinations (10 yrs - 2M yrs); in situ		in situ		BL	605	Isacks
234	gravity data				BL	605	Isacks
235	stream flow records; in situ		in situ		BL	605	Isacks
236	lake level records; in situ		in situ		BL	605	Isacks
237	well logs; in situ		in situ		BL	605	Isacks
238	wind velocity; scatterometer; ESA-1	scatterometer	ESA-1	ESA	BL	606	Kerr/Sorooshian
239	geophysical data; ASAR; in situ (aircraft)	ASAR	in situ (aircraft)	JPL	BL	606	Kerr/Sorooshian
240	geophysical data; PBMR; in situ (aircraft)	PBMR	in situ (aircraft)	NASA	BL	606	Kerr/Sorooshian

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
241	topography			USGS	BL	606	Kerr/Sorooshian
242	antropogenic features			DMA	BL	606	Kerr/Sorooshian
243	precision control points			NOAA	BL	606	Kerr/Sorooshian
244	surface characteristics (geophysical)				BL	606	Kerr/Sorooshian
245	volcanic plume tracks database; operational satellites		operational satellites	USGS	BL	606	Kerr/Sorooshian
246	GLIMS database			NASA GSFC	BL	606; 617	Kerr/Sorooshian; Sellers
247	Meldas/WetNet database			Univ. of Wisconsin	BL	606	Kerr/Sorooshian
248	radiance; AMSU; NOAA-11	AMSU	NOAA-11	NESDIS	BL	503; 616	AIRS/AMSU-A/MHS; Schoeberl
249	digital maps (geophysical)				BL	610	Moore
250	geophysical data; INSAT		INSAT			612	Murakami
251	wind stress data; in situ		in situ	NMC7	BL	612	Murakami
252	atmospheric chemistry data; ISAMS; UARS	ISAMS	UARS	NSSDC	BL	613	Pyle
253	vegetation type (plant distribution); in situ		in situ			614	Richey/Batista
254	vegetation structure (canopy config., roughness, physiological cond., hydrological state); in situ		in situ			614	Richey/Batista
255	canopy chemistry; in situ		in situ			614	Richey/Batista
256	vegetation spectral mosaic / vegetation mixture model; AVHRR; NOAA	AVHRR	NOAA			614	Richey/Batista
257	canopy spectral properties (spectral radiometric data); Landsat		Landsat			614	Richey/Batista
258	leaf area index (LAI); Landsat		Landsat			614	Richey/Batista
259	soil moisture; in situ		in situ			614	Richey/Batista
260	soil distribution; in situ		in situ	field, RADAM		614	Richey/Batista
261	soil hydraulic properties; in situ		in situ			614	Richey/Batista
262	soil runoff database; in situ		in situ			614	Richey/Batista
263	soil carbon database; in situ		in situ			614	Richey/Batista
264	CO2 flux; in situ		in situ	CAMREX		614	Richey/Batista
265	river chemistry (dissolved and particulate); in situ		in situ	CAMREX		614	Richey/Batista
266	river sediment load; in situ		in situ	CAMREX		614	Richey/Batista
267	reservoir chemistry; in situ		in situ	CAMREX		614	Richey/Batista
268	water vapor; in situ (rawinsonde)		in situ (rawinsonde)	CAMREX		614	Richey/Batista
269	cloud top OLR (for precipitation index); GOES		GOES			614	Richey/Batista
270	sensible heat flux; VISSR; GOES	VISSR	GOES			614	Richey/Batista
271	floodplain inundation; TM; Landsat	TM	Landsat			614	Richey/Batista
272	meteorological data; in situ		in situ	DNAEE	BL	614	Richey/Batista
273	hydrological data; in situ		in situ	INEMET / WMO / GEWEX	BL	614	Richey/Batista
274	precipitation data; in situ		in situ	DNAEE pluviometric network	BL	614	Richey/Batista
275	runoff mechanisms and infiltration; in situ		in situ	DNAEE / INEMET	BL	614	Richey/Batista
276	river discharge rate; in situ		in situ	DNAEE / INEMET		614	Richey/Batista
277	evapotranspiration (ET); model		model			614	Richey/Batista
278	vegetation and soil database; in situ		in situ	RADAMBRASIL	BL	614	Richey/Batista
279	topographic map database (1:250,000)			DSG	BL	614	Richey/Batista
280	geophysical data; VIS, NIR, and TIR; in situ (helicopter)	VIS, NIR, and TIR	in situ (helicopter)		BL	614	Richey/Batista

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
281	geophysical data; TIR & scatterometer; in situ (aircraft)	TIR & scatterometer	in situ (aircraft)		BL	614	Richey/Baista
282	upper air analyses			NMC	BL	616; 622	Dickinson; Schoeberl
283	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	CCRS	BL	618	Simard
284	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	AES	BL, AL, PL	618	Simard
285	sea ice data; AIMR; in situ (aircraft)	AIMR	in situ (aircraft)		BL, AL, PL	618	Simard
286	elevation data; Meis II; in situ	Meis II	in situ	CCRS-Innotech	BL, AL, PL	618	Simard
287	surface observations (NMC ADP reports; land, aircraft, ship, buoy, Dobson measurements); in situ		in situ	NMC	BL, AL, PL	616	Schoeberl
288	NDSC data			NOAA	BL, AL, PL	616	Schoeberl
289	standard meteorological data; in situ (rawinsonde)		in situ (rawinsonde)	NMC	BL, AL, PL	616	Schoeberl
290	standard meteorological data; in situ (aircraft)		in situ (aircraft)	NMC	BL, AL, PL	616	Schoeberl
291	cloud cover data			NMC	BL, AL, PL	616; 617	Schoeberl; Sellers
292	wind data; operational satellites		operational satellites	NMC	BL, AL, PL	616	Schoeberl
293	bogus data (i.e., storm system identified from cloud images)			NMC	BL, AL, PL	616	Schoeberl
294	standard meteorological analyses; model		model	UKMO, FNWC, ARGC	BL, AL, PL	616	Schoeberl
295	O3 total column; Earth Probe		Earth Probe		BL, AL, PL	616	Schoeberl
296	O3 total column; TOMS; Meteor-3	TOMS	Meteor-3		BL, AL, PL	616	Schoeberl
297	field studies on Australian test site; in situ		in situ		BL	615	Schimel
298	field studies in Amazonian Brazil; in situ		in situ		BL	615	Schimel
299	surface stress analyses; model		model	NMC	BL	617	Sellers
300	geophysical data; THIR; Nimbus-7	THIR	Nimbus-7		BL, AL, PL	617	Sellers
301	vegetation structure; in situ		in situ		BL, AL, PL	617	Sellers
302	angular momentum estimates; model		model	NMC	BL, AL, PL	620	Tapley
303	tracking data; SLR; LAGEOS-1,-2,-3	SLR	LAGEOS-1,-2,-3		BL, AL, PL	620	Tapley
304	tracking data; SLR; Etalon	SLR	Etalon		BL, AL, PL	620	Tapley
305	tracking data; SLR; Stella	SLR	Stella		BL, AL, PL	620	Tapley
306	tracking data; SLR; Ajisai	SLR	Ajisai		BL, AL, PL	620	Tapley
307	tracking data; SLR; Starlette	SLR	Starlette		BL, AL, PL	620	Tapley
308	geophysical data records; Altimeter; SALT	Altimeter	SALT		BL, AL, PL	620	Tapley
309	digital world grid in various forms and sizes; model		model		AL	620	Tapley
310	standard reference models (ocean basin outlines & depth, land, sea elev. & veg. drainage basin); model		model	EOSDIS	AL	620	Tapley
311	surface wind velocity; scatterometer; SEASAT	scatterometer	SEASAT	NODS	BL	619	Srokosz
312	geophysical data; SMMR; SEASAT	SMMR	SEASAT	NODS	BL, AL, PL	619	Srokosz
313	surface wind velocity; scatterometer; MOS-2	scatterometer	MOS-2	NASDA	BL, AL, PL	619	Srokosz
314	geophysical data; altimeter; SEASAT	altimeter	SEASAT	NODS	BL, AL, PL	619	Srokosz
315	surface wind speed; altimeter; MOS-2	altimeter	MOS-2	NASDA	BL, AL, PL	619	Srokosz
316	sea surface temperature (SST); NSCAT; ADEOS	NSCAT	ADEOS	JPL	BL, AL, PL	619	Srokosz
317	sea surface temperature (SST); SMMR; SEASAT	SMMR	SEASAT	NODS	BL	619	Srokosz
318	precipitation; SMMR; SEASAT	SMMR	SEASAT	NODS	BL, AL, PL	619	Srokosz
319	precipitation; MSU; TIROS	MSU	TIROS	NESDIS	BL, AL, PL	619	Srokosz
320	surface features; SAR; SEASAT	SAR	SEASAT	JPL	BL, AL, PL	619	Srokosz



# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
321	surface features; SAR; SIR-C	SAR	SIR-C	SAR	BL	619	Srokosz
322	cloud base height; ground Lidar; FIRE	ground Lidar	FIRE	NCDS	BL	619	Srokosz
323	run-off data; in situ		in situ	USGS, HCDN, WMO	BL	600	Barron
324	precipitation estimates; SMMR; Nimbus-7	SMMR	Nimbus-7	NSDC	BL	600	Barron
325	temperature estimates; SMMR; Nimbus-7	SMMR	Nimbus-7	NSDC	BL	600	Barron
326	vegetation index (NDVI); AVHRR; NOAA	AVHRR	NOAA	NOAA/NESDIS	BL	600	Barron
327	lightning ground strikes; in situ		in situ		BL	600	Barron
328	surface vegetation; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
329	climatological data (TD-1440 and NCDC); in situ / Susquehanna		in situ / Susquehanna	NCDC	BL	600	Barron
330	atmospheric chemistry data; in situ (rocketsonde)		in situ (rocketsonde)	NMC	BL	616	Schoeberl
331	O3 data; in situ (radiosonde)		in situ (radiosonde)	NMC	BL	601	Bates
332	general circulation model (GFDL); model		model	GFDL	BL	600	Barron
333	CO observations; in situ (ground)		in situ (ground)			901; 902	MOPITT
334	CO observations; in situ (aircraft)		in situ (aircraft)			901; 902	MOPITT
335	ocean color / temperature data; OCTS; ADEOS	OCTS	ADEOS			854; 855; 856; 857; 858; 859; 860; 862	HIRS
336	snow cover; in situ		in situ			991; 993; 997	AIRS; ASTER; MODIS
337	land ice cover; in situ		in situ			991	AIRS
338	O3 data; GOMR; NOAA	GOMR	NOAA			603; 616; 991; 994; 997	AIRS; GGI; Hansen; MODIS; Schoeberl
339	soil / terrain map; in situ		in situ			991	AIRS
340	digital elevation model; in situ		in situ	CIA		991	AIRS
341	surface pressure; in situ		in situ	FNOC		992; 992	ALT
342	O2 profile (atmospheric pressure); TBD		TBD	NMC		993	ASTER
343	precision control point Chip files; in situ		in situ			993	ASTER
344	atmospheric composition data; in situ (balloon, aircraft)		in situ (balloon, aircraft)			701	HIRDLS
345	atmospheric optical depth; photometer; in situ	photometer	in situ			909; 910	MISR
346	surface BRDFs; Deering Parabola; in situ	Deering Parabola	in situ			911; 912	MISR
347	radiance, multi-angle images; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)			911; 912	MISR
348	radiance; OCTS; ADEOS	OCTS	ADEOS			548	MODIS
349	snow cover; SSM/I; DMSP	SSM/I	DMSP			583	MIMR
350	aerosol optical depth; AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL	811; 812; 813	CERES
351	cloud liquid water path; MSU; NOAA	MSU	NOAA	NESDIS	BL	811; 812; 813	CERES
352	cloud liquid water path; SSM/I; DMSP	SSM/I	DMSP	NWP	BL	811; 812; 813	CERES
353	cloudiness properties; model		model	GISS	BL	811; 812; 813	CERES
354	temperature profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	NCDS	BL	811; 812; 813	CERES
355	temperature profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP				
356	land surface skin temperature; in situ		in situ	NESDIS	BL	616; 811; 812; 813	CERES; Schoeberl
357	radiance; 5 channels; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	BL	616; 811; 812; 813	CERES; Schoeberl
358	radiance; 5 channels; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS	BL	811; 812; 813	CERES
359	radiance; HIRS; NOAA	HIRS	NOAA	NESDIS	BL	811; 812; 813	CERES
360	radiance; TM; Landsat	TM	Landsat	EOSAT	BL	811; 812; 813	CERES
361	planetary boundary height; model		model	NWP	BL	811; 812; 813	CERES

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time Frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
362	precipitation rate; SSM/I; NOAA	SSM/I	NOAA	DMSP	BL	811; 812; 813	CERES
363	water vapor, model		model	NWP	BL	811; 812; 813	CERES
364	cloud liquid water path; TMI; TRMM	TMI	TRMM	GSFC	AL	811; 812; 813	CERES
365	CO2 conc			NESDIS	AL	811; 812; 813	CERES
366	geopotential; in situ		in situ	NMC	AL	811; 812; 813	CERES
367	humidity profile; in situ		in situ	NMC	AL	811; 812; 813	CERES
368	cloud data (TRMM); GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	AL	811; 812; 813	CERES
369	cloud data (TRMM); INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	AL	811; 812; 813	CERES
370	land surface temperature, skin; HIRS; ESA	HIRS	ESA	NESDIS	AL	811; 812; 813	CERES
371	land surface temperature, skin (TRMM); HIRS; NOAA	HIRS	NOAA	NESDIS	AL	811; 812; 813	CERES
372	radiance; AVHRR-LAC; ESA	AVHRR-LAC	ESA	NESDIS	AL	811; 812; 813	CERES
373	radiance; AVHRR-GAC; TRMM	AVHRR-GAC	TRMM	GSFC	AL	811; 812; 813	CERES
374	radiance; HIRS; ESA	HIRS	ESA	NESDIS	AL	811; 812; 813	CERES
375	radiance; HIRS; NOAA / TRMM	HIRS	NOAA / TRMM	NESDIS	AL	811; 812; 813	CERES
376	radiance; VAS/VISSR; GOES	VAS/VISSR	GOES	NESDIS	AL	811; 812; 813	CERES
377	precipitation rate; TMI; TRMM	TMI	TRMM	MSFC	AL	811; 812; 813	CERES
378	sea surface temperature (SST); AVHRR; TRMM	AVHRR	TRMM	NESDIS	AL	811; 812; 813	CERES
379	temperature profile; in situ		in situ	NMC	AL	619; 811; 812; 813	CERES; Srokosz
380	temperature profile (TRMM); in situ		in situ	NMC	AL	811; 812; 813	CERES
381	topographic elevation; in situ		in situ		AL	811; 812; 813	CERES
382	wind velocity; in situ		in situ	NMC	AL	811; 812; 813	CERES
383	surface elevation; SPOT		SPOT		BL, AL	592; 851; 865	Dozier, HIRIS
384	surface elevation; in situ		in situ	topographic maps	BL	592	Dozier
385	surface energy fluxes; AVHRR; NOAA	AVHRR	NOAA		BL	592	Dozier
386	snow surface temperature; AVHRR; NOAA	AVHRR	NOAA		BL	592	Dozier
387	snow surface temperature; Landsat		Landsat		BL	592	Dozier
388	snow liquid water content; SAR; in situ (aircraft)	SAR	in situ (aircraft)		BL	592	Dozier
389	snow liquid water content; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592	Dozier
390	snow liquid water content; SIR-C; Shuttle	SIR-C	Shuttle		BL	592	Dozier
391	wet snow area; SAR; in situ (aircraft)	SAR	in situ (aircraft)		BL	592	Dozier
392	wet snow area; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592	Dozier
393	wet snow area; SIR-C; Shuttle	SIR-C	Shuttle		BL	592	Dozier
394	snow contaminants; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592	Dozier
395	snow contaminants; Landsat		Landsat		BL, AL	592	Dozier
396	snow contaminants; SPOT		SPOT		BL, AL	592; 853	Dozier, HIRIS
397	snow grain size; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592	Dozier
398	snow grain size; Landsat		Landsat		BL, AL	592	Dozier
399	spectral albedo; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592; 853	Dozier, HIRIS
400	spectral albedo; Landsat		Landsat		BL, AL	592	Dozier
401	spectral albedo; SPOT		SPOT		BL, AL	592	Dozier
402	snow covered area; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	592; 851	Dozier, HIRIS
403	snow covered area; Landsat		Landsat		BL, AL	592	Dozier
404	snow covered area; SPOT		SPOT		BL, AL	592; 851	Dozier, HIRIS

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
405	snow-water equivalence; SAR; in situ (aircraft)	SAR	in situ (aircraft)		BL	592	Dozier
406	snow-water equivalence; DLR Radar; in situ	DLR Radar	in situ		BL	592	Dozier
407	snow-water equivalence; SIR-C; Shuttle	SIR-C	Shuttle		BL	592	Dozier
408	snow-water equivalence; SAR; ERS-1	SAR	ERS-1		BL	592	Dozier
409	snow-water equivalence; SAR; RADARSAT	SAR	RADARSAT		BL	592	Dozier
410	snow-water equivalence; SSM/I; DMSP	SSM/I	DMSP		BL	592	Dozier
411	wind velocity profile; in situ (rocketsonde)		in situ (rocketsonde)		BL, AL	602	Grose
412	wind velocity profile; in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
413	wind velocity profile; Lidar; in situ	Lidar	in situ		BL, AL	602	Grose
414	temperature profile; in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
415	temperature profile; Lidar; in situ	Lidar	in situ		BL, AL	602	Grose
416	solar irradiance; SSBUV; Shuttle	SSBUV	Shuttle		BL, AL	602	Grose
417	O (3P); in situ (rocketsonde)		in situ (rocketsonde)		BL, AL	602	Grose
418	O (3P); in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
419	O3; SSBUV; Shuttle	SSBUV	Shuttle		BL, AL	602	Grose
420	O3; ground microwave; in situ	ground microwave	in situ		BL, AL	602	Grose
421	O3; TOMS; Meteor-3	TOMS	Meteor-3		BL, AL	602	Grose
422	O3; Dobson		Dobson	Dobson network	BL, AL	602	Grose
423	O3; in situ		in situ	BCC	BL, AL	602	Grose
424	O3; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
425	NO; SBUV, SBUV/2; NOAA	SBUV, SBUV/2	NOAA		BL, AL	602	Grose
426	NO; in situ (rocketsonde)		in situ (rocketsonde)		BL, AL	602	Grose
427	NO; in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
428	NO; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
429	NO2; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
430	NO2; in situ (aircraft)		in situ (aircraft)		BL, AL	602	Grose
431	NO2; ground absorption; in situ	ground absorption	in situ		BL, AL	602	Grose
432	N2O5; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
433	N2O5; in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
434	N2O; in situ		in situ	GMCC/NOAA	BL, AL	602	Grose
435	N2O; in situ (aircraft)		in situ (aircraft)		BL, AL	602	Grose
436	N2O; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
437	HNO3; in situ (balloon)		in situ (balloon)		BL, AL	602	Grose
438	HNO3; in situ (aircraft)		in situ (aircraft)		BL, AL	602	Grose
439	HNO3; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
440	HNO4; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
441	CO2; in situ		in situ	GMCC/NOAA	BL, AL	602	Grose
442	CO2; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
443	CH4; in situ		in situ	GMCC/NOAA	BL, AL	602	Grose
444	CH4; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
445	CO; ground microwave; in situ	ground microwave	in situ		BL, AL	602	Grose
446	CO; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose
447	CO; in situ		in situ	GMCC/NOAA	BL, AL	602	Grose
448	H2O; ground microwave; in situ	ground microwave	in situ		BL, AL	602	Grose
449	H2O; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL	602	Grose

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
450	H2O; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
451	H2O; in situ (aircraft)		in situ (aircraft)		BL, AL 602		Grose
452	H2O; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
453	H2O2; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
454	OH; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
455	OH; in situ (rocketsonde)		in situ (rocketsonde)		BL, AL 602		Grose
456	HF; HALOE; UARS	HALOE	UARS		BL, AL 602		Grose
457	HF; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
458	HCl; HALOE; UARS	HALOE	UARS		BL, AL 602		Grose
459	HCl; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
460	ClO; ground microwave; in situ	ground microwave	in situ		BL, AL 602		Grose
461	ClO; MLS; UARS	MLS	UARS		BL, AL 602		Grose
462	ClO; in situ (aircraft)		in situ (aircraft)		BL, AL 602		Grose
463	OCIO; ground absorption; in situ	ground absorption	in situ		BL, AL 602		Grose
464	OCIO; in situ (aircraft)		in situ (aircraft)		BL, AL 602		Grose
465	ClONO2; CLAES; UARS	CLAES	UARS		BL, AL 602		Grose
466	ClONO2; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL 602		Grose
467	ClONO2; in situ (aircraft)		in situ (aircraft)		BL, AL 602		Grose
468	ClONO2; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
469	CF3 (CF3C13, CF2C12); in situ (aircraft)		in situ (aircraft)		BL, AL 602		Grose
470	CF3 (CF3C13, CF2C12); in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
471	CH3Cl; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
472	CH3Cl; ATMOS; Shuttle	ATMOS	Shuttle		BL, AL 602		Grose
473	HOCl; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
474	NO3; ground absorption; in situ	ground absorption	in situ		BL, AL 602		Grose
475	NO3; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
476	HBr; in situ (balloon)		in situ (balloon)		BL, AL 602		Grose
477	PSC / Aerosols; Lidar; in situ	Lidar	in situ		BL, AL 602		Grose
478	atmospheric constituent data; ATMOS; Shuttle	ATMOS	Shuttle		613		Pyle
479	atmospheric constituent data; TOMS; Meteor-3 + others	TOMS	Meteor-3 + others	NASA	613		Pyle
480	atmospheric constituent data; SBUV/2; NOAA	SBUV/2	NOAA	NOAA	613		Pyle
481	radiance; TOVS; NOAA	TOVS	NOAA	NOAA	622		Dickinson
482	assimilated radiation balance data; model		model	NMC, ECMWF, GSC	622		Dickinson
483	CO2 conc; in situ		in situ		617		Sellers
484	O2 isotope fractionation; in situ		in situ		617		Sellers
485	CO conc; MAPS; Shuttle	MAPS	Shuttle		TBD		Moore
486	O3 conc; TOMS; Meteor-3 + others	TOMS	Meteor-3 + others	NASA	TBD		Moore
487	precipitation as rain; geostationary satellite		geostationary satellite	NOAA	AL		Moore
488	precipitation as rain; TRMM		TRMM	NASA	AL		Moore
489	clouds/radiation; geostationary satellite		geostationary satellite	NOAA	AL		Moore
490	clouds/radiation; in situ (weather station)		in situ (weather station)	NMC +	AL		Moore
491	vegetation temperature; in situ (weather station)		in situ (weather station)	NMC +	TBD		Moore
492	land cover; in situ		in situ	IGBP	BL		Moore

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
493	soil moisture (derived from level-1b data); SMMR; Nimbus-7	SMMR	Nimbus-7		BL	610	Moore
494	floodplain extent and inundation (derived from level-1b data); SMMR; Nimbus-7	SMMR	Nimbus-7		BL	610	Moore
495	discharge hydrographs; in situ		in situ		BL	610	Moore
496	river stage; in situ		in situ		BL	610	Moore
497	wind vectors (GCM); model		model	GISS	BL, AL	610	Moore
498	N2O conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE		BL	610	Moore
499	CH4 conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE		BL	610	Moore
500	N2O conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE		BL	610	Moore
501	N2O conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
502	NO conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
503	O3 conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
504	CO2 conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
505	CH4 conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
506	CO conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
507	NOy conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
508	ClO conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
509	BrO conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
510	HNO3 conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
511	H2O conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
512	OCIO conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
513	ClONO2 conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
514	CFCs conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
515	HCl conc; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
516	O3 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
517	HNO3 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
518	NO total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
519	NO2 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
520	HCl total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
521	HF total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
522	ClONO2 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
523	H2 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
524	N2O total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
525	CH4 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
526	CO2 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
527	H2O total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
528	CO total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
529	OCS total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
530	C2H6 total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
531	OCIO total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
532	BrO total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
533	CFCs total column; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
534	temperature profile; UARS		UARS		BL	616	Schoeberl
535	O3; UARS		UARS		BL	616	Schoeberl

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
536	wind components (u,v); UARS		UARS		616		Schoeberl
537	aerosols; UARS		UARS		616		Schoeberl
538	NO; UARS		UARS		616		Schoeberl
539	NO2; UARS		UARS		616		Schoeberl
540	HNO3; UARS		UARS		616		Schoeberl
541	CH4; UARS		UARS		616		Schoeberl
542	N2O; UARS		UARS		616		Schoeberl
543	CO; UARS		UARS		616		Schoeberl
544	H2O; UARS		UARS		616		Schoeberl
545	CF2Cl2; UARS		UARS		616		Schoeberl
546	CFCl3; UARS		UARS		616		Schoeberl
547	HCl; UARS		UARS		616		Schoeberl
548	ClO; UARS		UARS		611; 616		Mouginis-Mark; Schoeberl
549	ClONO2; UARS		UARS		616		Schoeberl
550	HF; UARS		UARS		616		Schoeberl
551	O3 total column; TOVS; NOAA	TOVS	NOAA		507; 616		AIRS/AMSU-A/MHS; Schoeberl
552	O3 total column; TOMS; ADEOS	TOMS	ADEOS		616; 910		MISR; Schoeberl
553	O3 conc; SSBUV; Shuttle	SSBUV	Shuttle		616; 911		MISR; Schoeberl
554	O3 conc; SBUV2; NOAA	SBUV2	NOAA		616; 911		MISR; Schoeberl
555	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	NASA	618; 911		MISR; Simard
556	sea ice data; SAR; RADARSAT	SAR	RADARSAT		618		Simard
557	sea ice data; SAR; ERS-1	SAR	ERS-1	ESA	618		Simard
558	sea ice data; SSM/I; DMSP	SSM/I	DMSP		618		Simard
559	snow cover data; SAR (C band); ERS-1	SAR (C band)	ERS-1	ESA	618		Simard
560	snow cover data; RADARSAT	SAR (C band)	RADARSAT		618		Simard
561	snow cover data; SAR (X,C,L-band); in situ	SAR (X,C,L-band)	in situ (aircraft)	NASA	618		Simard
562	snow cover data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	NASA	618		Simard
563	snow cover data; Passive Radiometer; in situ	Passive	in situ	AES, NASA	618		Simard
564	snow cover data; SSM/I; DMSP	SSM/I	DMSP		618		Simard
565	stereo images; SPOT		SPOT		618		Simard
566	river/lake ice data; SAR (C band); ERS-1	SAR (C band)	ERS-1	ESA	618		Simard
567	river/lake ice data; SAR (C band); RADARSAT	SAR (C band)	RADARSAT	CCRS	618		Simard
568	river/lake ice data; SAR (X,C-band); in situ	SAR (X,C-band)	in situ (aircraft)	CCRS	618		Simard
569	river/lake ice data; SAR (C,L,P-band); in situ (aircraft)	SAR (C,L,P-band)	in situ (aircraft)	NASA	618		Simard
570	river/lake ice data; SMMR; Nimbus-7	SMMR	Nimbus-7		618		Simard
571	river/lake ice data; SSM/I; DMSP	SSM/I	DMSP		618		Simard
572	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	611		Mouginis-Mark
573	SO2 data (for eruption detection and conc); TOMS; Meteor-3	TOMS	Meteor-3	NASA	611		Mouginis-Mark
574	SO2 data (for eruption detection and conc); GOMR; NOAA	GOMR	NOAA	NOAA	611		Mouginis-Mark
575	SO2 data (for eruption detection); TOMS; ADEOS	TOMS	ADEOS		611		Mouginis-Mark
576	SO2 data (for eruption detection); Earth Probe		Earth Probe	JPL	611		Mouginis-Mark
577	spectral radiances (4-15 µm); IMG; ADEOS	IMG	ADEOS	JPL	611		Mouginis-Mark

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Alge_ID	Recipient Instrument / IDS Team
578	geophysical data; TIIS; in situ (aircraft)	TIIS	in situ (aircraft)		611		Mouginis-Mark
579	IR images; VISSR; GOES	VISSR	GOES	NESDIS	611		Mouginis-Mark
580	SO2 conc; COSPEC; in situ (aircraft)	COSPEC	in situ (aircraft)		611		Mouginis-Mark
581	atmospheric extinction; in situ		in situ		611		Mouginis-Mark
582	SO2 conc data; spectrometer network; in situ	spectrometer network	in situ	Brewer	611		Mouginis-Mark
583	SO2 conc data; in situ (balloon dustsonde)		in situ (balloon dustsonde)		611		Mouginis-Mark
584	wind velocity; HRDI; UARS	HRDI	UARS		611		Mouginis-Mark
585	aerosols; TOMS; ADEOS	TOMS	ADEOS		611		Mouginis-Mark
586	volcano location digital map; in situ		in situ		611		Mouginis-Mark
587	volcano data; Zeiss; in situ (aircraft)	Zeiss	in situ (aircraft)		611		Mouginis-Mark
588	temperature profile; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		611		Mouginis-Mark
589	temperature profile; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)		611		Mouginis-Mark
590	coastline map; model		model		611		Mouginis-Mark
591	wind velocity; in situ (rawinsonde)		in situ (rawinsonde)		611		Mouginis-Mark
592	ocean color data; CZCS; Nimbus-7	CZCS	Nimbus-7		548		MODIS
593	industrial emissions; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL		Hansen
594	deforestation; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL		Hansen
595	deforestation; operational satellites		operational satellites		AL, PL		Hansen
596	fires; operational satellites		operational satellites		AL, PL		Hansen
597	fires; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL		Hansen
598	surface air temperature; in situ (weather station)		in situ (weather station)		AL, PL		Hansen
599	ground temperature; operational satellites		operational satellites		AL, PL		Hansen
600	temperature profile; in situ (weather station)		in situ (weather station)		AL, PL		Hansen
601	temperature profile; operational satellites		operational satellites		AL, PL		Hansen
602	precipitation; in situ (weather station)		in situ (weather station)		AL, PL		Hansen
603	precipitation; operational satellites		operational satellites		AL, PL		Hansen
604	precipitation; Earth Probe		Earth Probe		AL, PL		Hansen
605	cloud distribution; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL		Hansen
606	cloud distribution; in situ (weather station)		in situ (weather station)		AL, PL		Hansen
607	cloud distribution; operational satellites		operational satellites		AL, PL		Hansen
608	H2O profile; operational satellites		operational satellites		AL, PL		Hansen
609	vegetation index; operational satellites		operational satellites		AL, PL		Hansen
610	soil moisture; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL		Hansen
611	soil moisture; operational satellites		operational satellites		AL, PL		Hansen
612	sea surface temperature (SST); in situ (ship, buoy)		in situ (ship, buoy)		AL, PL		Hansen
613	sea surface temperature (SST); operational satellites		operational satellites		AL, PL		Hansen
614	salinity; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL		Hansen
615	pigment conc; TOPEX		TOPEX		AL, PL		Hansen
616	pCO2; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL		Hansen

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
617	CO2 conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
618	CH4 conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
619	vegetation distribution; operational satellites		operational satellites		AL, PL	603	Hansen
620	wetlands extent; operational satellites		operational satellites		AL, PL	603	Hansen
621	CFCs conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
622	N2O conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
623	O3 profile; operational satellites		operational satellites		AL, PL	603	Hansen
624	O3 profile; UARS		UARS		AL, PL	603	Hansen
625	H2O conc, stratosphere; UARS		UARS		AL, PL	603	Hansen
626	aerosols, stratosphere; UARS		UARS		AL, PL	603	Hansen
627	solar irradiance; UARS		UARS		AL, PL	603	Hansen
628	vegetation/land albedo; operational satellites		operational satellites		AL, PL	603	Hansen
629	cloud cover; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
630	cloud cover; operational satellites		operational satellites		AL, PL	603	Hansen
631	cloud cover; TOPEX		TOPEX		AL, PL	603	Hansen
632	cloud height (temperature); operational satellites		operational satellites		AL, PL	603	Hansen
633	cloud optical depth; operational satellites		operational satellites		AL, PL	603	Hansen
634	sea ice cover; operational satellites		operational satellites		AL, PL	603	Hansen
635	snow cover/land albedo; operational satellites		operational satellites		AL, PL	603	Hansen
636	ocean heat exchange; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL	603	Hansen
637	ocean heat exchange; TOPEX		TOPEX		AL, PL	603	Hansen
638	upper air temperature; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
639	upper air temperature; operational satellites		operational satellites		AL, PL	603	Hansen
640	ocean internal temperature; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL	603	Hansen
641	radiation budget; TOPEX		TOPEX		AL, PL	603	Hansen
642	radiation budget; operational satellites		operational satellites		AL, PL	603	Hansen
643	radiation budget; Earth Probe		Earth Probe		AL, PL	603	Hansen
644	near surface temperature; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
645	near surface temperature; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL	603	Hansen
646	near surface humidity; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
647	near surface humidity; in situ (ship, buoy)		in situ (ship, buoy)		AL, PL	603	Hansen
648	surface winds; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
649	surface winds; Earth Probe		Earth Probe		AL, PL	603	Hansen
650	radar data; NEXRAD; in situ	NEXRAD	in situ	NWS	BL, AL	805	LIS
651	lightning observations (National Lightning Network); in situ		in situ	NLN	BL, AL	805	LIS
652	visible and IR images; VISSR; GOES	VISSR	GOES	NESDIS	AL	805; 894	HIRIS; LIS
653	ocean wave data; in situ (buoy)		in situ (buoy)	NOAA/DBC	BL, AL	810	STIKSCAT
654	surface analysis fields; model		model	NMC/ECMWF/FNOC	AL	810	STIKSCAT
655	digital elevation model (5 km resolution)			EDC	AL	801	EOSP
656	boundary layer height; Earth Probe		Earth Probe		AL, PL	603	Hansen



# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
657	vegetation phenology; operational satellites		operational satellites		AL, PL	603	Hansen
658	field capacity; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
659	snow cover; operational satellites		operational satellites		AL, PL	603	Hansen
660	snow depth; operational satellites		operational satellites		AL, PL	603	Hansen
661	land ice cover; operational satellites		operational satellites		AL, PL	603	Hansen
662	land ice thickness; operational satellites		operational satellites		AL, PL	603	Hansen
663	wind vector profiles; in situ (weather station)		in situ (weather station)		AL, PL	603	Hansen
664	wind vector profiles; Earth Probe		Earth Probe		AL, PL	603	Hansen
665	cloud liquid water content; operational satellites		operational satellites		AL, PL	603	Hansen
666	cloud liquid water profile; operational satellites		operational satellites		AL, PL	603	Hansen
667	cloud drop phase; operational satellites		operational satellites		AL, PL	603	Hansen
668	cloud drop size distribution; operational satellites		operational satellites		AL, PL	603	Hansen
669	precipitable water; operational satellites		operational satellites		AL, PL	603	Hansen
670	water vapor column amount; operational satellites		operational satellites		AL, PL	603	Hansen
671	cloud amount; operational satellites		operational satellites		AL, PL	603	Hansen
672	cloud optical thickness; operational satellites		operational satellites		AL, PL	603	Hansen
673	runoff; in situ (aircraft, ground station)		in situ (aircraft, ground station)		AL, PL	603	Hansen
674	radiance: 3 bands; ERBE; FIRE	ERBE	FIRE	NCDS	BL	621	Wielicki
675	radiance: 5 bands; AVHRR/HRPT; NOAA/FIRE	AVHRR/HRPT	NOAA/FIRE	NCDS	BL	621	Wielicki
676	radiance: 8 bands; HIRS; FIRE	HIRS	FIRE	NCDS	BL	621	Wielicki
677	radiance: 2 bands; VISSR; GOES / FIRE	VISSR	GOES / FIRE	NCDS	BL	621	Wielicki
678	cloud properties; ISCCP		ISCCP	NCDS	BL	621	Wielicki
679	radiance: 7 bands; TM; Landsat	TM	Landsat	EOSAT	BL	621	Wielicki
680	temperature profiles; FIRE		FIRE	NCDS, NMC	BL	621	Wielicki
681	humidity profiles; FIRE		FIRE	NCDS, NMC	BL	621	Wielicki
682	radiative fluxes (LW, SW), surface; FIRE		FIRE	NCDS	BL	621	Wielicki
683	cloud base/height; ground Lidar; FIRE	ground Lidar	FIRE	NCDS	BL	621	Wielicki
684	cloud particle size/phase; probes; in situ (aircraft) / FIRE	probes	in situ (aircraft) / FIRE	NCDS	BL	621	Wielicki
685	radiative fluxes (LW, SW); in situ (aircraft) / FIRE		in situ (aircraft) / FIRE	NCDS	BL	621	Wielicki
686	radiance: 5 bands; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NOAA	BL	621	Wielicki
687	radiance: 7 bands; TM; Landsat	TM	Landsat	EOSAT	BL	621	Wielicki
688	radiative fluxes, TOA; ERBE	ERBE		NCDS	BL	621	Wielicki
689	cloud properties; ISCCP		ISCCP	NCDS	BL	621	Wielicki
690	cloud properties; THIR; Nimbus-7	THIR	Nimbus-7	NCDS	BL	621	Wielicki
691	radiative fluxes, surface; SRB	SRB		NCDS	BL	621	Wielicki
692	radiative fluxes, TOA; ERBE; Nimbus-6,7	ERBE	Nimbus-6,7	NCDS	BL	621	Wielicki
693	aerosol optical depth; AOT	AOT		NOAA	BL	621	Wielicki
694	temperature profile; in situ		in situ	NMC, ECMWF	AL, PL	621	Wielicki
695	water vapor profile; in situ		in situ	NMC, ECMWF	AL, PL	621	Wielicki
696	wind profile; in situ		in situ	NMC, ECMWF	AL, PL	621	Wielicki
697	land surface temperature; in situ		in situ	NMC, ECMWF	AL, PL	621	Wielicki
698	land surface temperature; in situ		in situ	NMC, ECMWF	AL, PL	621	Wielicki

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo ID	Recipient Instrument / IDS Team
699	radiance; 10 bands; VISSR; GOES	VISSR	GOES		AL, PL	621	Wielicki
700	wind velocity; NSCAT; ADEOS	NSCAT	ADEOS	JPL	BL	606	Kerr/Sorooshian
701	geophysical data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	PLDS	BL	606	Kerr/Sorooshian
702	geophysical data; ERBE	ERBE		NASA-LARC	BL	606	Kerr/Sorooshian
703	cloud data; in situ / ISCCP		in situ / ISCCP	NASA, NOAA	BL	606	Kerr/Sorooshian
704	scene radiance data; TM; Landsat	TM	Landsat	EOSAT	BL	606	Kerr/Sorooshian
705	geophysical data; Meteosat		Meteosat	ESA	BL	606	Kerr/Sorooshian
706	geophysical data; SSM/I; DMSP	SSM/I	DMSP	NSIDC	BL	606	Kerr/Sorooshian
707	scene radiance data; SPOT		SPOT	SPOT	BL	606	Kerr/Sorooshian
708	geophysical data; SAR (X-band); SIR-C	SAR (X-band)	SIR-C		BL	606	Kerr/Sorooshian
709	geophysical data; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)	NASA	BL	606	Kerr/Sorooshian
710	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	BL	606	Kerr/Sorooshian
711	geophysical data; GOES		GOES		BL	606	Kerr/Sorooshian
712	topography; SPOT		SPOT		AL, PL	606	Kerr/Sorooshian
713	evapotranspiration; AMRIR; NOAA	AMRIR	NOAA	NOAA	AL, PL	606; 993	ASTER; Kerr/Sorooshian
714	surface albedo; VISSR; GOES	VISSR	GOES		AL, PL	606	Kerr/Sorooshian
715	soil temperature; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
716	canopy temperature; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
717	air temperature; in situ		in situ		AL, PL	606	Kerr/Sorooshian
718	relative humidity; in situ		in situ		AL, PL	606	Kerr/Sorooshian
719	surface wind; in situ		in situ		AL, PL	606	Kerr/Sorooshian
720	aerodynamic roughness; in situ		in situ		AL, PL	606	Kerr/Sorooshian
721	surface soil moisture; in situ		in situ		AL, PL	606	Kerr/Sorooshian
722	cloud cover; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
723	cloud top temperature; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
724	cloud albedo; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
725	digitized radar return; NEXRAD; in situ	NEXRAD	in situ		AL, PL	606	Kerr/Sorooshian
726	lightning strikes; in situ		in situ		AL, PL	606	Kerr/Sorooshian
727	precipitation intensity; in situ		in situ		AL, PL	606	Kerr/Sorooshian
728	precipitation storm depth; in situ		in situ		AL, PL	606	Kerr/Sorooshian
729	precipitation duration; in situ		in situ		AL, PL	606	Kerr/Sorooshian
730	runoff; in situ		in situ		AL, PL	606	Kerr/Sorooshian
731	ozone optical depth; GOMR; NOAA	GOMR	NOAA		AL, PL	606	Kerr/Sorooshian
732	water vapor total column; in situ (radiosonde)		in situ (radiosonde)		AL, PL	606	Kerr/Sorooshian
733	boundary layer wind; in situ (radiosonde)		in situ (radiosonde)		AL, PL	606	Kerr/Sorooshian
734	horizontal tropospheric water vapor flux; in situ (radiosonde)		in situ (radiosonde)		AL, PL	606	Kerr/Sorooshian
735	radiative flux (SW), outward, surface; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
736	radiative flux (LW), outward, surface; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
737	photosynthetically active radiation (PAR); in situ		in situ		AL, PL	606	Kerr/Sorooshian
738	net radiation; in situ		in situ		AL, PL	606	Kerr/Sorooshian
739	vegetation transpiration; AMRIR; NOAA	AMRIR	NOAA		AL, PL	606	Kerr/Sorooshian
740	geophysical data; MSS; Landsat	MSS	Landsat	EDC, EOSAT	BL	610	Moore

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
741	cloud ice data; AVHRR; NOAA	AVHRR	NOAA	NESDIS	PL	600	Barron
742	O3 profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC		616	Schoeberl
743	NO2 profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC		616	Schoeberl
744	humidity profiles; in situ (radiosonde)		in situ (radiosonde)	NCDC	BL, PL	510; 533; 601; 603; 606; 612	AIRS/AMSU-A/MHS; Baes; Hansen; Kerr/Sorooshian; MODIS; Murakami
745	column water vapor; in situ (radiosonde)		in situ (radiosonde)	NCDC	BL, PL	510; 533; 601; 603; 606; 612	AIRS/AMSU-A/MHS; Baes; Hansen; Kerr/Sorooshian; MODIS; Murakami
746	sea surface temperature (SST); in situ (buoy)		in situ (buoy)	NOAA DBC	BL	543; 580; 601; 810	Bates; MIMR; MODIS; STIKSCAT
747	General Circulation Model (GCM); model		model	GISS, NCAR, GFDL	BL	600; 606	Barron; Kerr/Sorooshian
748	ice cover; SMR; Nimbus-7	SMR	Nimbus-7		BL	612; 617	Murakami; Sellers
749	humidity profiles; in situ (radiosonde)		in situ (radiosonde)	NMC	BL	510; 580; 617; 620	AIRS/AMSU-A/MHS; MIMR; Sellers; Tapley
750	other level 2 data; in situ (radiosonde)		in situ (radiosonde)	NMC	BL	580; 617	MIMR; Sellers
751	IERS length-of-day time-series (based on SLR and VLBI techniques); in situ		in situ	IERS	BL	620	Tapley
752	UT/CSR SLR and IERS VLBI independent length-of-day time-series; in situ		in situ	IERS	BL	620	Tapley
753	biome discrimination; LTER		LTER	Univ. of Montana		521	MODIS
754	relative humidity; AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL, PL	597	Rothrock
755	temperature soundings; CEAREX		CEAREX	CEAREX, Russian Sns.		597	Rothrock
756	wind data; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
757	atmospheric temperature; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
758	aerosols; in situ (aircraft)		in situ (aircraft)		BL	616	Schoeberl
759	surface photography (1:10,000 - 1:200,000); in situ (aircraft)		in situ (aircraft)		BL	605	Isacks
760	magnetic field data				BL	605	Isacks
761	geophysical data; CLAES; UARS	CLAES	UARS	NSSDC	BL	613	Pyle
762	geophysical data; MLS; UARS	MLS	UARS	NSSDC	BL	613	Pyle
763	canopy chemistry; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)			614	Richey/Batista
764	canopy spectral properties (spectral radiometric data); in situ		in situ			614	Richey/Batista
765	soil moisture; SAR; in situ (aircraft)	SAR	in situ (aircraft)			614	Richey/Batista
766	CH4 flux; in situ		in situ	CAMREX		614	Richey/Batista
767	water vapor; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)			614; 865	HIRIS; Richey/Batista
768	FAO world soils database			FAO	BL	614	Richey/Batista
769	global vegetation and albedo database			Mathews, 1983	BL	614	Richey/Batista
770	primary and secondary land cover database; in situ		in situ	Henderson-Sellers, 1984	BL	614	Richey/Batista
771	global temperature, precipitation and soil moisture database			Willmott et al. 1985	BL	614	Richey/Batista
772	global monthly surface climatology database			Spangler and Janna, 1984	BL	614	Richey/Batista
773	Amazon deforestation map database			PRODES Project/ISY	BL	614	Richey/Batista
774	georeferenced digital land use map (1:250,000) database			SUDAM	BL	614	Richey/Batista
775	Amazon vegetation index digital mosaic database				BL	614	Richey/Batista

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo_ID	Recipient Instrument / IDS Team
776	agricultural inventories database			IRGE	BL	614	Richey/Batista
777	limnological database (historical and current)			ELETRONORTE, USP/CRHEA	BL	614	Richey/Batista
778	cartographic data; in situ		in situ	DHN	BL	614	Richey/Batista
779	meteorological data; in situ		in situ	NMC	BL, AL, PL, 620		Tapley
780	geophysical data records; Altimeter; ERS-1,-2	Altimeter	ERS-1,-2		BL, AL, PL, 620		Tapley
781	geophysical data records; Altimeter; TOPEX / POSEIDON	Altimeter	TOPEX / POSEIDON		BL, AL, PL, 620		Tapley
782	geophysical data records; Altimeter; GEOS-3	Altimeter	GEOS-3		BL	620	Tapley
783	geophysical data records; Altimeter; SEASAT	Altimeter	SEASAT		BL	620	Tapley
784	geophysical data records; Altimeter; GEOSAT	Altimeter	GEOSAT		BL	620	Tapley
785	sea level data; altimeter; MOS-2	altimeter	MOS-2	NASDA	BL, AL, PL, 619		Srokosz
786	soil types; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
787	runoff; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
788	stream chemistry; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
789	ground water; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
790	moisture and energy fluxes; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
791	land use; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
792	snow cover; in situ / Susquehanna		in situ / Susquehanna	NSIDC	BL	600	Barron
793	water utilization; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
794	operational mesoscale forecasts; in situ /		in situ / Susquehanna		BL	600	Barron
795	river widths; Lidar; in situ / Susquehanna	Lidar	in situ / Susquehanna		BL	600	Barron
796	geophysical data; SAR; in situ / Susquehanna	SAR	in situ / Susquehanna	GISS	BL	811; 812; 813	CERES
797	humidity (q) profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	BL	811; 812; 813	CERES
798	O3 profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	BL	811; 812; 813	CERES
799	cloud data; GMS, GOES / ISCCP		GMS, GOES / ISCCP	NCDS	BL	811; 812; 813	CERES
800	humidity (q) profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	BL	811; 812; 813	CERES
801	O3 profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	BL	811; 812; 813	CERES
802	cloud data; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	BL	811; 812; 813	CERES
803	soil wetness; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC	BL	600	Barron
804	temperature; in situ		in situ	WMO, NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
805	precipitation; in situ		in situ	NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
806	wind; in situ		in situ	WMO, NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
807	weather radar; in situ		in situ	WMO, NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
808	pressure level, 500 mb; in situ		in situ	WMO, NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
809	atmospheric jets; in situ		in situ	WMO, NWS-RFC, Europe?	BL	606	Kerr/Sorooshian
810	calibration data; field spectrometer; in situ	field spectrometer	in situ	WMO, NWS-RFC, Europe?	BL	996	HIRIS

# Appendix R: Non-EOS Input Requirements Listed by Product Number

Prod #	Product Name	Instrument	Platform / Experiment	Source	Time frame	Algorithm Algo ID	Recipient Instrument / IDS Team
811	calibration/verification optical data; in situ (ship)	AVIRIS	in situ (ship)		PL	854; 855; 856; 857; 858; 859	HIRIS
812	canopy chemistry/biophysics data; AVIRIS; in situ (aircraft)		in situ (aircraft)		BL	890; 891	HIRIS
813	cloud data; in situ / FIRE		in situ / FIRE		BL	879; 880; 881; 882; 883; 884	HIRIS
814	cloud data; in situ / STORM		in situ / STORM		BL	879; 880; 881; 882; 883; 884	HIRIS
815	cloud imagery; AVIRIS	AVIRIS	in situ (aircraft)		BL	879; 880; 881; 882; 883; 884	HIRIS
816	cloud reflectance, bi-directional, (BRDF); Personal Spectrometer II; in situ (aircraft)	Personal Spectrometer II	in situ (aircraft)		BL	885	HIRIS
817	digital elevation model-7.5 min (DEM); in situ		in situ		BL	876	HIRIS
818	field data (pigments, phytoplankton abundance & species, photosynthetic activity); in situ		in situ		BL	860; 862	HIRIS
819	field data in snow regions; in situ		in situ		BL, PL	851; 853	HIRIS
820	forest ecosystem products (foliar canopy mass, foliar chemistry-N, lignin, cellulose); in situ		in situ		BL	876; 890	HIRIS
821	ocean color data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL, AL	854; 855; 856; 857; 858; 859; 860; 862	HIRIS
822	ocean physics and biological data; in situ		in situ		BL	860; 862	HIRIS
823	radiance, upwelling / downwelling; in situ		in situ		BL	857; 862	HIRIS
824	spectral reflectance, geologic mapping; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	868; 869	HIRIS
825	scene radiance, vegetation; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)		BL	876; 889	HIRIS
826	scene radiance, vegetation; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	876; 889	HIRIS
828	soil spectral data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	865	HIRIS
829	spectral data in snow regions; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL, PL	851; 853	HIRIS
830	spectral reflectance, mineral; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL, PL	870	HIRIS
831	spectral reflectance, mineral; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)		BL, PL	870	HIRIS
832	spectral reflectance, mineral; VNIR portable spectro-radiometer; in situ	VNIR portable spectro-radiometer	in situ		BL, PL	870	HIRIS
833	spectral reflectance; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		BL	857; 859	HIRIS
834	spectral reflectance; PIDAS; in situ	PIDAS	in situ		BL	890	HIRIS
835	spectral reflectance; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)		BL	868; 869	HIRIS
836	spectral reflectance; VNIR portable spectro-radiometer; in situ	VNIR portable spectro-radiometer	in situ		BL	865; 868; 869	HIRIS
837	stereoscopic images; SPOT		SPOT		BL, PL	853; 870	HIRIS
838	soil spectral data; field spectrometer; in situ	field spectrometer	in situ		BL	865	HIRIS
839	aerosol climatology; sun photometer; in situ (ground)	sun photometer	in situ (ground)		BL, PL	894	HIRIS
840	chlorophyll specific absorption; in situ (ship/buoy)		in situ (ship/buoy)		BL, PL	553	MODIS
841	fluorescence efficiency; in situ (ship/buoy)		in situ (ship/buoy)		BL, PL	553	MODIS
842	primary productivity vs irradiance data; in situ (ship)		in situ (ship)		BL, PL	553	MODIS
843	mixed layer depth; in situ (ship/buoy)		in situ (ship/buoy)		BL, PL	553	MODIS
844	ocean density profiles; in situ (ship/buoy)		in situ (ship/buoy)		BL, PL	553	MODIS
845	turbulence dissipation rate; in situ (ship/buoy)		in situ (ship/buoy)		BL, PL	553	MODIS
846	sea surface temperature (SST); AVHRR; NOAA	AVHRR	NOAA	NESDIS	BL	811; 812; 813	CERES
847	digital elevation model; DTED-1, DCW				AL	517; 808	MODIS



**Non-EOS Input Requirements  
Listed by  
Product Name**

Appendix S

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**





Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
720	aerodynamic roughness; in situ	sun photometer	in situ		2 mo			AL, PL	cm	20 cm :: 10 cm
839	aerosol climatology; sun photometer; in situ (ground)		in situ (ground)					BL, PL		
350	aerosol optical depth; AVHRR; NOAA	AVHRR	NOAA	NESDIS	1/wk [d,n]	1.25 dg :: Ocean	N/A :: Atmos	BL		0.20 :: 0.20
693	aerosol optical depth; AOT	AOT		NOAA	1/7 days	1 deg :: Ocean		BL		
29	aerosol profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC				BL		
185	aerosol radiation; in situ		in situ							
585	aerosols; TOMS; ADEOS	TOMS	ADEOS							
758	aerosols; in situ (aircraft)		in situ (aircraft)					BL		
20	aerosols; SAM II; Nimbus-7	SAM II	Nimbus-7	NSSDC				BL		
537	aerosols; UARS		UARS							
626	aerosols, stratosphere; UARS		UARS					AL, PL		tau=0.02 ::
233	age determinations (10 yrs - 2M yrs); in situ		in situ					BL		
776	agricultural inventories database			IBGE				BL		
717	air temperature; in situ		in situ		hourly	1 km ::		AL, PL	K	2K :: 2K
60	altimetry; ALT; ERS-1	ALT	ERS-1	ESA				BL		
59	altimetry; ALT; GEOSAT	ALT	GEOSAT	Navy				BL		
62	altimetry; laser; in situ (aircraft)	laser	in situ (aircraft)					BL		
63	altimetry; laser; Shuttle	laser	Shuttle	JPL				BL		
773	Amazon deforestation map database			PRODES Project/ISY				BL		
775	Amazon vegetation index digital mosaic database							BL		
302	angular momentum estimates; model		model	NMC				BL, AL, PL		
242	antropogenic features			DMA	5 yrs			BL		
482	assimilated radiation balance data; model		model	NMC, ECMWF, GSFC						
581	atmospheric extinction; in situ		in situ							
156	atmospheric chemistry data; in situ (rocketsonde)		in situ (rocketsonde)	NCDC						
330	atmospheric chemistry data; in situ (rocketsonde)		in situ (rocketsonde)	NMC				BL		
19	atmospheric chemistry data; LIMS; Nimbus-7	LIMS	Nimbus-7	NSSDC				BL		
252	atmospheric chemistry data; ISAMS; UARS	ISAMS	UARS	NSSDC				BL		
37	atmospheric chemistry data; UARS		UARS	NSSDC				BL		
344	atmospheric composition data; in situ (balloon, aircraft)		in situ (balloon, aircraft)							
479	atmospheric constituent data; TOMS; Meteor-3 + others	TOMS	Meteor-3 + others	NASA						
480	atmospheric constituent data; SBUV/2; NOAA	SBUV/2	NOAA	NOAA						
478	atmospheric constituent data; ATMOS; Shuttle	ATMOS	Shuttle							
809	atmospheric jets; in situ		in situ	WMO, NWS-RPO, NWS-RFC, Europe?	1 hr	1 km :: R		BL		
345	atmospheric optical depth; photometer; in situ	photometer	in situ							
757	atmospheric temperature; in situ (aircraft)		in situ (aircraft)					BL		
170	backscatter coefficient; SAR; ERS-1	SAR	ERS-1	ESA	1/3 mo	25 m :: Canada/R	N/A :: Sfc			2 dB :: 1 dB
169	backscatter coefficient; Weather radar; in situ	Weather radar	in situ	NESDIS		30 m :: Land/R	:: Sfc			
172	backscatter coefficient; SAR; in situ (aircraft)	SAR	in situ (aircraft)	JPL	1/6 mo	10 m :: Canada/R	N/A :: Sfc			2 dB :: 1 dB
171	backscatter coefficient; SAR; JERS-1	SAR	JERS-1	NASDA	1/3 mo	25 m :: Canada/R	N/A :: Sfc			2 dB :: 1 dB

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
173	backscatter coefficient; SAR; RADARSAT	SAR	RADARSAT	CCRS	1(3 mo)	10 m :: Canada/R	N/A :: Sfc			2 dB :: 1 dB
174	backscatter coefficient; SAR; SIR-C	SAR	SIR-C	NASA	1(6 mo)	25 m :: Canada/R	N/A :: Sfc			2 dB :: 1 dB
137	backscattering coefficient; in situ (ship)		in situ (ship)						/m	7% :: 4%
220	bathymetry; in situ		in situ	NRL			1 m ::	AL		
753	biome discrimination; LTER		LTER	Univ. of Montana						
293	bogus data (i.e., storm system identified from cloud images)			NMC				BL, AL, PL		
733	boundary layer wind; in situ (radiosonde)		in situ (radiosonde)		hourly	100 km ::		AL, PL	m/s	5 m/s :: 5 m/s
656	boundary layer height; Earth Probe		Earth Probe					AL, PL		20 m ::
199	BRDFs; LTER		LTER	Univ. of Montana						
509	BrO conc; in situ (aircraft)		in situ (aircraft)					BL		
532	BrO total column; in situ (aircraft)		in situ (aircraft)							
530	C2H6 total column; in situ (aircraft)		in situ (aircraft)							
810	calibration data; field spectrometer; in situ	field spectrometer	in situ					BL		
182	calibration data for ASTER; SWIR spectrometer; in situ	SWIR spectrometer	in situ	NASA						
183	calibration data for ASTER; spectrometer; in situ (helicopter)	spectrometer	in situ (helicopter)	NASA						
194	calibration/verification optical data; in situ		in situ							
811	calibration/verification optical data; in situ (ship)		in situ (ship)					PL		
255	canopy chemistry; in situ		in situ							
763	canopy chemistry; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)							
812	canopy chemistry/biophysics data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL		
764	canopy spectral properties (spectral radiometric data); in situ		in situ							
257	canopy spectral properties (spectral radiometric data); Landsat		Landsat							
716	canopy temperature; AMRIR; NOAA	AMRIR	NOAA		2/day	1 km ::		AL, PL	K	1K :: 0.5K
778	cartographic data; in situ		in situ	DHN				BL		
545	CF2Cl2; UARS		UARS							
546	CFCl3; UARS		UARS							
469	CF3 (CFCl3, CF2Cl2); in situ (aircraft)		in situ (aircraft)		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
470	CF3 (CFCl3, CF2Cl2); in situ (balloon)		in situ (balloon)		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
514	CF3 conc; in situ (aircraft)		in situ (aircraft)					BL		
621	CF3 conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		
533	CF3 total column; in situ (aircraft)		in situ (aircraft)							
471	CHCl; in situ (balloon)		in situ (balloon)		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
472	CHCl; ATMOS; Shuttle	ATMOS	Shuttle		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
443	CH4; in situ		in situ	GMCC/NOAA	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
444	CH4; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
541	CH4; UARS		UARS							
505	CH4 conc; in situ (aircraft)		in situ (aircraft)					BL		
499	CH4 conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE					BL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs. :: Rel
618	CH4 conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		0.1% ::
766	CH4 flux; in situ		in situ	CAMREX						
525	CH4 total column; in situ (aircraft)		in situ (aircraft)							
142	chlorophyll concentration and others (mid-Atlantic Bight); in situ (ship)		in situ (ship)			:: Ocean/L	:: Site	AL	ug/l	10% :: 2%
206	chlorophyll fluorescence; in situ (ship)		in situ (ship)	CalCOFI				BL		
144	chlorophyll fluorescence (mid-Atlantic Bight); in situ (ship)		in situ (ship)			:: Ocean/L	:: Sfc	AL	ug/l	10% :: 2%
840	chlorophyll specific absorption; in situ (ship/buoy)		in situ (ship/buoy)			:: Ocean/R,L		BL, PL		
152	chlorophyll, phycoerythrin, and dissolved organic matter fluorescence; AOL; in situ (aircraft)	AOL	in situ (aircraft)		each pass	10 m :: Ocean/R	:: Sfc	BL	mg/m <sup>3</sup>	15% :: 8%
200	climate data; in situ		in situ			:: Land/R		AL, PL		
329	climatological data (TD-1440 and NCDC); in situ / Susquehanna		in situ / Susquehanna	NCDC				BL		
39	climatology (T, H, P) data; in situ		in situ	ECMWF				BL, PL		
90	climatology station records; in situ		in situ	NCDC				BL		
460	CIO; ground microwave; in situ	ground microwave	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
462	CIO; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
461	CIO; MLS; UARS	MLS	UARS		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
548	CIO; UARS		UARS							
508	CIO conc; in situ (aircraft)		in situ (aircraft)					BL		
467	CIONO2; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
468	CIONO2; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
466	CIONO2; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
465	CIONO2; CLAES; UARS	CLAES	UARS		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
549	CIONO2; UARS		UARS							
513	CIONO2 conc; in situ (aircraft)		in situ (aircraft)					BL		
522	CIONO2 total column; in situ (aircraft)		in situ (aircraft)							
41	cloud / boundary layer height data; Lidar; in situ (aircraft, ground)	Lidar	in situ (aircraft, ground)	MSFC				BL		
724	cloud albedo; AMRIR; NOAA	AMRIR	NOAA		hourly	500 m ::	500 m ::	AL, PL	%	5% :: 5%
671	cloud amount; operational satellites		operational satellites					AL, PL		3% ::
322	cloud base height; ground Lidar; FIRE	ground Lidar	FIRE	NCDS				BL		
683	cloud base/height; ground Lidar; FIRE	ground Lidar	FIRE	NCDS	1 min	1-4 km :: variable		BL		
629	cloud cover; in situ (weather station)		in situ (weather station)		hourly	500 m ::		AL, PL	%	3% ::
722	cloud cover; AMRIR; NOAA	AMRIR	NOAA					AL, PL		5% :: 5%
630	cloud cover; operational satellites		operational satellites					AL, PL		3% ::
631	cloud cover; TOPEX		TOPEX					AL, PL		3% ::
291	cloud cover data			NMC				BL, AL, PL		
799	cloud data; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	8/day(d.n)	280 km :: G	3 km :: Atmos	BL		
13	cloud data; in situ		in situ	NESDIS				BL		
813	cloud data; in situ / FIRE		in situ / FIRE					BL		
703	cloud data; in situ / ISCCP		in situ / ISCCP	NASA, NOAA	1 hr			BL		
814	cloud data; in situ / STORM		in situ / STORM					BL		

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
802	cloud data; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	8/day(d,n)	280 km :: G	3 km :: Atmos	BL		
12	cloud data; ISCCP		ISCCP	GISS				BL		
24	cloud data; AVHRR; NOAA	AVHRR	NOAA	NESDIS				PL		
368	cloud data (TRMM); GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	8/day(d,n)	280 km :: G	3 km :: Atmos	AL		
369	cloud data (TRMM); INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	8/day(d,n)	280 km :: G	3 km :: Atmos	AL		
605	cloud distribution; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		3% ::
606	cloud distribution; in situ (weather station)		in situ (weather station)					AL, PL		3% ::
607	cloud distribution; operational satellites		operational satellites					AL, PL		3% ::
667	cloud drop phase; operational satellites		operational satellites					AL, PL		5% ::
668	cloud drop size-distribution; operational satellites		operational satellites					AL, PL		5% ::
632	cloud height (temperature); operational satellites		operational satellites					AL, PL		50 m ::
741	cloud ice data; AVHRR; NOAA	AVHRR	NOAA	NESDIS				PL		
815	cloud imagery; AVIRIS	AVIRIS						BL		
665	cloud liquid water content; operational satellites		operational satellites					AL, PL		5% ::
352	cloud liquid water path; SSM/I; DMSP	SSM/I	DMSP	DMSP	2/day(d,n), 7 mo	2.5 dg :: Ocean	N/A :: Atmos	BL	g/m <sup>2</sup>	
351	cloud liquid water path; MSU; NOAA	MSU	NOAA	NESDIS	2/day(d,n), 7 mo	150 km :: G	N/A :: Atmos	BL	g/m <sup>2</sup>	
364	cloud liquid water path; TMI; TRMM	TMI	TRMM	GSFC	2/day(d,n)	25 km :: G	N/A :: Atmos	AL	g/m <sup>2</sup>	10% :: 10%
666	cloud liquid water profile; operational satellites		operational satellites					AL, PL		5% ::
122	cloud liquid/ice content; in situ (aircraft)		in situ (aircraft)			:: Local	:: Cloud	AL		
155	cloud motion winds; operational satellites		operational satellites	GISS				AL, PL		5% ::
633	cloud optical depth; operational satellites		operational satellites					AL		
121	cloud optical thickness; in situ (aircraft)		in situ (aircraft)			:: Local	:: Cloud	AL		
672	cloud optical thickness; operational satellites		operational satellites					AL, PL		5% ::
216	cloud parameters; CEAREX		CEAREX	CEAREX, Russian Suns.						
214	cloud parameters; TOVS; NOAA	TOVS	NOAA	NESDIS						
215	cloud parameters; ERBI	ERBI								
684	cloud particle size/phase; probes; in situ (aircraft) / FIRE	probes	in situ (aircraft) / FIRE	NCDS	5 sec	0.5 km :: variable		BL		
678	cloud properties; ISCCP		ISCCP	NCDS	8/day	30 km :: R(1000km)		BL		
689	cloud properties; ISCCP		ISCCP	NCDS	8/day	2.5 deg :: G		BL		
690	cloud properties; THIR; Nimbus-7	THIR	Nimbus-7	NCDS	2/day	4.5 deg :: G		BL		
816	cloud reflectance, bi-directional, (BRDF); Personal Spectrometer II; in situ (aircraft)	Personal Spectrometer II	in situ (aircraft)					BL		
269	cloud top OLR (for precipitation index); GOES		GOES							
723	cloud top temperature; AMRIR; NOAA	AMRIR	NOAA	NWP	hourly	500 m ::	500 m ::	AL, PL	K	5% :: 5%
353	cloudiness properties; model		NOAA model	NOAA	1 wk	1 km :: G		BL		
489	clouds/radiation; geostationary satellite		geostationary satellite		1 wk			AL	% cover, cal/m <sup>2</sup> /day	10% :: 10%
490	clouds/radiation; in situ (weather station)		in situ (weather station)	NMC +				AL	% cover, cal/m <sup>2</sup> /day	10% :: 10%
445	CO <sub>2</sub> ; ground microwave; in situ	ground microwave	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
447	CO <sub>2</sub> ; in situ		in situ	GMCC/NOAA	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
446	CO, ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
543	CO; UARS		UARS							
506	CO conc; in situ (aircraft)		in situ (aircraft)					BL		
485	CO conc; MAPS; Shuttle	MAPS	Shuttle		daily	100 km :: G		TBD	ppmv	25% :: 10%
334	CO observations; in situ (aircraft)		in situ (aircraft)							
333	CO observations; in situ (ground)		in situ (ground)							
528	CO total column; in situ (aircraft)		in situ (aircraft)		1 mo	zonal mean :: G	5 km :: Mid-Atmos	BL, AL	mixing ratio	1% :: 0.5%
441	CO2; in situ		in situ	GMCC/NOAA	1 mo	zonal mean :: G	5 km :: Mid-Atmos	BL, AL	mixing ratio	1% :: 0.5%
442	CO2; ATMOS; Shuttle	ATMOS	Shuttle							
483	CO2 conc; in situ		in situ					BL		
504	CO2 conc; in situ (aircraft)		in situ (aircraft)					AL, PL		0.2 ppm ::
617	CO2 conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)							
365	CO2 conc			NESDIS	1/yr	:: G	N/A :: Atmos	AL	ppm	1% :: 1%
264	CO2 flux; in situ		in situ	CAMREX						
526	CO2 total column; in situ (aircraft)		in situ (aircraft)							
590	coastline map; model		model							
745	column water vapor; in situ (radiosonde)		in situ (radiosonde)	NCDC				BL, PL		
594	deforestation; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		10% ::
595	deforestation; operational satellites		operational satellites					AL, PL		10% ::
148	detached coccolith concentration; in situ (ship)		in situ (ship)			:: Ocean/L	:: Sfc	AL	mg CaCO3#m <sup>3</sup>	15% :: 6%
136	debris absorption coefficient; in situ (ship)		in situ (ship)			:: Ocean/L	1 m ::	AL	/m	5% :: 2%
128	diffuse attenuation coefficient-downwelling radiation; in situ (ship, buoy)		in situ (ship, buoy)			:: Ocean/L	1 m :: 0-150 m	AL	/m	5% :: 2%
129	diffuse attenuation coefficient-upwelling radiation; in situ (ship, buoy)		in situ (ship, buoy)				1 m :: 0-150 m	AL	/m	5% :: 2%
114	digital elevation model; ERS-1		ERS-1	ESA				BL, AL		
340	digital elevation model; in situ		in situ	CIA						
115	digital elevation model; JERS-1		JERS-1	NASDA				BL, AL		
113	digital elevation model; SPOT		SPOT	CNES				BL, AL		
655	digital elevation model (5 km resolution)			EDC		5 km :: Land		AL		
187	digital elevation model (surface topography)			DMA	one time only	0.1 dg		AL		
817	digital elevation model-7.5 min (DEM); in situ		in situ			7.5 min :: L		BL		
847	digital elevation model; DTED-1, DCW					various :: Land	N/A :: Sfc	AL		
249	digital maps (geophysical)							BL		
309	digital world grid in various forms and sizes; model		model			-0.5 dg :: G		AL		
725	digitized radar return; NEXRAD; in situ	NEXRAD	in situ		10 min	1 km ::		AL, PL	dB	5% :: 5%
186	directional radiance; spectral irradiance, etc.; in situ		in situ							
495	discharge hydrographs; in situ		in situ							
95	down-looking dual frequency radio data; PRARE		PRARE		1 wk - 1 mo	:: selected locations		BL	m <sup>3</sup> /sec	5% :: 5%
124	downwelling spectral radiance; in situ (ship, buoy)		in situ (ship, buoy)					BL		
6	earth radiation budget; ERBE; NOAA	ERBE	NOAA	NCDS, LARC		:: Ocean/L	1 m :: 0-150 m	AL	uW/cm <sup>2</sup> /nm	5% :: 1-2 %
207	eddy fields and interactions with CA current; in situ (ship)		in situ (ship)	ONR				BL		

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
69	Eddy General Circulation Model (EGCM); GCMs; model		model	GISS, NCAR		:: Ocean	:: Ocean	BL		
286	elevation data; Meis II; in situ	Meis II	in situ	CCRS-InnoTech		3m		BL, AL, PL		
181	emissivity data; in situ		in situ	TBD						
713	evapotranspiration; AMRIR; NOAA	AMRIR	NOAA	NOAA	1 hr			AL, PL		
277	evapotranspiration (ET); model		model							
768	FAO world soils database			FAO				BL		
658	field capacity; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		10% ::
818	field data (pigments, phytoplankton abundance & species, photosynthetic activity); in situ		in situ					BL		
819	field data in snow regions; in situ		in situ					BL, PL		
298	field studies in Amazonian Brazil; in situ		in situ					BL		
297	field studies on Australian test site; in situ		in situ					BL		
597	fires; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		10% ::
596	fires; operational satellites		operational satellites					AL, PL		10% ::
494	floodplain extent and inundation (derived from level-1b data); SMMR; Nimbus-7	SMMR	Nimbus-7		1 wk - 1 mo	25 km :: G		BL	Ha/km <sup>2</sup>	20% :: 20%
271	floodplain inundation; TM; Landsat	TM	Landsat							
140	fluorescence and other data; AOL; in situ (aircraft)	AOL	in situ (aircraft)			:: Ocean/L	:: Sfc	BL, AL, PL	mg/m <sup>3</sup>	15% :: 8%
841	fluorescence efficiency; in situ (ship/buoy)		in situ (ship/buoy)			:: Ocean/R.L		BL, PL		
193	fluorescence line height (FLH); FLUCASI	FLUCASI		Borstad/Gower				BL		
143	fluorescence line magnitude @685 nm; in situ (ship)		in situ (ship)			:: Ocean/L	1 m :: 0-150 m	AL	m	10% :: 4%
205	fluorescence mapping data; CASI; in situ (ship)	CASI	in situ (ship)	Borstad/Cowles				BL		
204	fluorescence response of phytoplankton; Laser-stimulated; in situ	Laser-stimulated	in situ	Borstad/Cowles				BL		
820	forest ecosystem products (foliar canopy mass, foliar chemistry-N, lignin, cellulose); in situ		in situ					BL		
747	General Circulation Model (GCM); model		model	GISS, NCAR, GFDL		:: G	:: Atmos	BL		
332	general circulation model (GFDL); model		model	GFDL				BL		
230	geochemical analyses							BL		
229	geological maps (1:50,000 - 1:1,000,000)							BL		
83	geophysical data; COARE		COARE	ECMWF				BL		
34	geophysical data; SSM/I; DMSP	SSM/I	DMSP	NSIDC				BL		
706	geophysical data; SSM/I; DMSP	SSM/I	DMSP	NSIDC	daily	16-70 km ::		BL		
7	geophysical data; ERS-1		ERS-1	ESA				BL		
66	geophysical data; FGGE		FGGE	NMC				BL		
226	geophysical data; GEOSAT		GEOSAT	Navy				BL		
70	geophysical data; GEWEX		GEWEX					BL		
11	geophysical data; IR instrument; GMS	IR instrument	GMS	NASDA				BL		
109	geophysical data; VISSR; GOES	VISSR	GOES	NESDIS				BL		
711	geophysical data; GOES		GOES		hourly	1 km ::		BL		
110	geophysical data; AIS; in situ (aircraft)	AIS	in situ (aircraft)					BL		
239	geophysical data; ASAR; in situ (aircraft)	ASAR	in situ (aircraft)	JPL	2 scenes/yr	2.5 - 19 deg.		BL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
55	geophysical data; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)			0.5 m ::		BL		
2	geophysical data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	PLDS				BL		
701	geophysical data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	PLDS		1 m ::		BL		
58	geophysical data; MISR simulator; in situ (aircraft)	MISR simulator	in situ (aircraft)					BL		
240	geophysical data; PBMIR; in situ (aircraft)	PBMIR	in situ (aircraft)	NASA		16 deg		BL		
38	geophysical data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	JPL				BL		
578	geophysical data; TIS; in situ (aircraft)	TIS	in situ (aircraft)							
94	geophysical data; TIS; in situ (aircraft)	TIS	in situ (aircraft)	Geology MAC				BL		
709	geophysical data; TIS; in situ (aircraft)	TIS	in situ (aircraft)	NASA		2.5 m ::		BL		
281	geophysical data; TIR & scatterometer; in situ (aircraft)	TIR & scatterometer	in situ (aircraft)		1 yr			BL		
280	geophysical data; VIS, NIR, and TIR; in situ (helicopter)	VIS, NIR, and TIR	in situ (helicopter)					BL		
67	geophysical data; in situ (rawinsonde)		in situ (rawinsonde)	NWS				BL		
47	geophysical data; in situ (ship)		in situ (ship)	NCDC				BL		
48	geophysical data; in situ (ship)		in situ (ship)	FNOC				BL, PL		
796	geophysical data; SAR; in situ / Susquehanna	SAR	in situ / Susquehanna					BL		
250	geophysical data; INSAT		INSAT							
43	geophysical data; ISCCP / FIRE		ISCCP / FIRE	NCDS				BL		
15	geophysical data; JERS-1		JERS-1	NASDA				BL		
101	geophysical data; JGOFS		JGOFS					BL		
740	geophysical data; MSS; Landsat	MSS	Landsat	EDC, EOSAT				BL		
17	geophysical data; Meteosat		Meteosat	ESA				BL		
705	geophysical data; Meteosat		Meteosat	ESA	1 hr	1 km ::		BL		
22	geophysical data; SMMR; Nimbus-7	SMMR	Nimbus-7	NSSDC				BL		
227	geophysical data; SMMR; Nimbus-7	SMMR	Nimbus-7					BL		
300	geophysical data; THIR; Nimbus-7	THIR	Nimbus-7					BL, AL, PL		
100	geophysical data; AMRIR; NOAA	AMRIR	NOAA	NESDIS				BL, PL		
314	geophysical data; altimeter; SEASAT	altimeter	SEASAT	NODS				BL, AL, PL		
312	geophysical data; SMMR; SEASAT	SMMR	SEASAT	NODS				BL, AL, PL		
31	geophysical data; SEASAT		SEASAT	NODS				BL		
79	geophysical data; SAR; SIR-C	SAR	SIR-C					BL		
708	geophysical data; SAR (X-band); SIR-C	SAR (X-band)	SIR-C		50 hr	25-40 m ::		BL		
82	geophysical data; TOGA		TOGA					BL		
223	geophysical data; TRMM		TRMM					BL		
761	geophysical data; CLAES; UARS	CLAES	UARS	NSSDC				BL		
762	geophysical data; MLS; UARS	MLS	UARS	NSSDC				BL		
71	geophysical data; WOCCE		WOCCE					BL		
702	geophysical data; ERBE	ERBE		NASA-LARC		100 km? ::		BL		
30	geophysical data; SASS-1	SASS-1		NODS				BL		
74	geophysical data; VTIR	VTIR						BL		
208	geophysical data (low resolution); SAR; in situ (aircraft)	SAR	in situ (aircraft)	NASA		low resolution				
780	geophysical data records; Altimeter; ERS-1.2	Altimeter	ERS-1.2					BL, AL, PL		
782	geophysical data records; Altimeter; GEOS-3	Altimeter	GEOS-3					BL		

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Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
784	geophysical data records; Altimeter; GEOSAT	Altimeter	GEOSAT					BL		
308	geophysical data records; Altimeter; SALT	Altimeter	SALT					BL, AL, PL		
783	geophysical data records; Altimeter; SEASAT	Altimeter	SEASAT					BL		
781	geophysical data records; Altimeter; TOPEX / POSEIDON	Altimeter	TOPEX / POSEIDON					BL, AL, PL		
81	geophysical records with reference ephemeris; GPS		GPS					BL		
366	geopotential; in situ		in situ	NMC	4/day(d,n)	1.25 dg :: G	1 km :: Atmos	AL	m	
158	geopotential height analysis; model		model	NMC, ECMWF						
774	georeferenced digital land use map (1:250,000) database			SUDAM				BL		
246	GIMMS database			NASA-GSFC	1 mo			BL		
65	GLA-assimilated data			NMC				BL		
40	glaciological data (elevation)			NSF/DPP				BL		
179	global cloud climatology scenes; Japansat		Japansat	NASDA?				BL		
178	global cloud climatology scenes; JAS		JAS	NASDA?						
772	global monthly surface climatology database			Spangler and Janna, 1984				BL		
771	global temperature, precipitation and soil moisture database			Willmott et al 1985				BL		
769	global vegetation and albedo database			Mathews, 1983		200 m - 10 km ::		BL		
234	gravity data							BL		
197	ground data; transmissionometer; in situ	transmissionometer	in situ	GSFC						
203	ground radiances; MMR; in situ	MMR	in situ	GSFC						
202	ground radiances; in situ		in situ					BL, AL, PL		
599	ground temperature; operational satellites		operational satellites					AL, PL		0.2 K ::
789	ground water; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
523	H2 total column; in situ (aircraft)		in situ (aircraft)							
448	H2O; ground microwave; in situ	ground microwave	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
451	H2O; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
450	H2O; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
449	H2O; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
544	H2O; UARS		UARS							
511	H2O conc; in situ (aircraft)		in situ (aircraft)					BL		
625	H2O conc, stratosphere; UARS		UARS					AL, PL		3% ::
608	H2O profile; operational satellites		operational satellites					AL, PL		3% ::
527	H2O total column; in situ (aircraft)		in situ (aircraft)							
453	H2O2; in situ (balloon)		in situ (balloon)		12 hr	30 x 10 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
476	HBr; in situ (balloon)		in situ (balloon)		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
459	HCl; in situ (balloon)		in situ (balloon)		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 10%
458	HCl; HALOE; UARS	HALOE	UARS		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 10%
547	HCl; UARS		UARS							
515	HCl conc; in situ (aircraft)		in situ (aircraft)					BL		
520	HCl total column; in situ (aircraft)		in situ (aircraft)							
457	HF; in situ (balloon)		in situ (balloon)		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%



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Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
456	HF; HALOE; UARS	HALOE	UARS		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
550	HF; UARS		UARS							
521	HF total column; in situ (aircraft)		in situ (aircraft)							
438	FINO3; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 5%
437	FINO3; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 5%
439	FINO3; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 5%
540	FINO3; UARS		UARS							
510	FINO3 conc; in situ (aircraft)		in situ (aircraft)					BL		
517	FINO3 total column; in situ (aircraft)		in situ (aircraft)							
440	FINO4; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 10 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	50% :: 10%
452	HO2; in situ (balloon)		in situ (balloon)		12 hr	30 x 10 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
473	HOC1; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
734	horizontal tropospheric water vapor flux; in situ (radiosonde)		in situ (radiosonde)		hourly	100 km ::		AL, PL	kg/m^3	10% :: 10%
134	humic and fulvic acids; in situ (ship)		in situ (ship)			:: Ocean/L		AL	g/m^3	10% :: 3%
3	humidity; SSM/I; DMSP	SSM/I	DMSP	NODS				BL		
797	humidity (q) profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	8/day[d.n]	280 km :: G	3 km :: Atmos	BL		
800	humidity (q) profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	8/day[d.n]	280 km :: G	3 km :: Atmos	BL		
367	humidity profile; in situ		in situ	NMC	4/day[d.n]	1.25 dg :: G	2 km :: Atmos	AL	g/kg	20% :: 10%
681	humidity profiles; FIRE		FIRE	NCDS, NMC	(2-8)/day	2.5 dg :: R(1000km)		BL		
744	humidity profiles; in situ (radiosonde)		in situ (radiosonde)	NCDC				BL, PL		
749	humidity profiles; in situ (radiosonde)		in situ (radiosonde)	NMC				BL		
213	humidity soundings; CEAREX		CEAREX	CEAREX, Russian Sns.						
273	hydrological data; in situ		in situ	INEMET / WMO / GEWEX				BL		
748	ice cover; SMMR; Nimbus-7	SMMR	Nimbus-7			:: Land/R		BL		
102	ice motion; SAR; ERS-1	SAR	ERS-1	ESA				BL		
61	ice sheet topography		in situ	IERS				BL		
751	IERS length-of-day time-series (based on SLR and VLBI techniques); in situ		in situ	IERS				BL		
88	IERS polar motion time-series (based on SLR and VLBI techniques); in situ		in situ	IERS				BL		
123	incident spectral irradiance; in situ (ship, buoy)		in situ (ship, buoy)			:: Ocean/L	:: Sfc	AL	uW/cm^2/nm	5% :: 1.2 %
593	industrial emissions; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		2% ::
151	inorganic suspended matter concentration; in situ (ship)		in situ (ship)			5 m :: Ocean/L	:: Sfc	AL	g/m^3	10% :: 5%
579	IR images; VISSR; GOES	VISSR	GOES	NESDIS		8 km :: G/volcanoes				
147	IR surface brightness temperatures; in situ (ship)		in situ (ship)			1 m :: Ocean/L	:: Sfc	AL	K	0.5 K :: 0.1 K
236	lake level records; in situ		in situ		mo, yr			BL		
492	land cover; in situ		in situ	IGBP	1 yr	1 km :: G		BL	Ha	30% :: 30%
661	land ice cover; operational satellites		operational satellites					AL, PL		10% ::
662	land ice thickness; operational satellites		operational satellites					AL, PL		10% ::
356	land surface skin temperature; in situ		in situ	NESDIS	4/day[d.n]	1.25 dg :: Land	N/A :: Sfc	BL	K	1.0 K :: 0.5 K

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
697	land surface temperature; in situ		in situ	NMC, ECMWF	4/day	1.25 deg :: G		AL, PL		
698	land surface temperature; in situ		in situ	NMC, ECMWF	4/day	0.25 deg :: R (10 deg)		AL, PL		
75	land surface temperature							BL		
370	land surface temperature, skin; HIRS; ESA	HIRS	ESA	NESDIS	4/day (d.n)	1.25 dg :: Land	N/A :: Sfc	AL	K	1 K :: 0.5 K
371	land surface temperature, skin (TRMM); HIRS; NOAA	HIRS	NOAA	NESDIS	4/day (d.n)	1.25 dg :: Land	N/A :: Sfc	AL	K	1 K :: 0.5 K
791	land use; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
337	land ice cover; in situ		in situ							
154	latent heating profiles; TRMM		TRMM	NSSDC						
258	leaf area index (LAI); Landsat		Landsat							
219	Levitus climatology database			NODC						
327	lightning ground strikes; in situ		in situ					BL		
651	lightning observations (National Lightning Network); in situ		in situ	NLN				BL, AL		
726	lightning strikes; in situ		in situ		10 min	1 km ::		AL, PL	#/hr	1 :: 1
85	limb viewing data; ATMOS; Shuttle	ATMOS	Shuttle	JPL				BL		
777	limnological database (historical and current)			ELETRONORTE, USPC/CRHEA				BL		
190	liquid water content; SSM/I; DMSP	SSM/I	DMSP	MSFC?	2/day	2 - 5 dg :: Ocean		BL, PL		
760	magnetic field data					200 m - 10 km ::		BL		
247	McIDAS/WetNet database			Univ. of Wisconsin	1 hr			BL		
779	meteorological data; in situ		in situ	NMC				BL, AL, PL		
73	meteorological data (humidity, etc.); MSR; MOS-1, MOS-2	MSR	MOS-1, MOS-2	NASDA				BL		
68	meteorological data (including diurnal cycle analysis); GMS; EMEX	GMS	EMEX					BL		
272	meteorological data; in situ		in situ	DNAEE				BL		
843	mixed layer depth; in situ (ship/buoy)		in situ (ship/buoy)			:: Ocean/R.L.		BL, PL		
44	model output/analysis			NMC, ECMWF, GSFC				BL		
160	moisture analysis			NMC, ECMWF						
790	moisture and energy fluxes; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
54	multispectral scanner data; MAS; in situ (aircraft)	MAS	in situ (aircraft)	GSFC				BL		
434	N2O; in situ		in situ	GMCC/NOAA	daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
435	N2O; in situ (aircraft)		in situ (aircraft)		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
436	N2O; ATMOS; Shuttle	ATMOS	Shuttle		daily	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
542	N2O; UARS		UARS							
501	N2O conc; in situ (aircraft)		in situ (aircraft)					BL		
498	N2O conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE					BL		
500	N2O conc; in situ (aircraft) / ABLE		in situ (aircraft) / ABLE					BL		
622	N2O conc; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		
524	N2O total column; in situ (aircraft)		in situ (aircraft)							
433	N2O5; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
432	N2O5; ATMOS; Shuttle	ATMOS	Shuttle	NOAA	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL, PL	mixing ratio	20% :: 10%
288	NDSC data							BL, AL, PL		
647	near surface humidity; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL	g/kg	1 g/kg ::
646	near surface humidity; in situ (weather station)		in situ (weather station)					AL, PL	g/kg	1 g/kg ::
645	near surface temperature; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		0.2 K ::
644	near surface temperature; in situ (weather station)		in situ (weather station)					AL, PL		0.2 K ::
738	net radiation; in situ		in situ		2/day	1 km ::		AL, PL	W/m <sup>2</sup>	20% :: 20%
427	NO; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
426	NO; in situ (rocketsonde)		in situ (rocketsonde)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
425	NO; SBUV, SBUV/2; NOAA	SBUV, SBUV/2	NOAA		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
428	NO; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
538	NO; UARS		UARS							
502	NO conc; in situ (aircraft)		in situ (aircraft)					BL		
518	NO total column; in situ (aircraft)		in situ (aircraft)							
431	NO2; ground absorption; in situ	ground absorption	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
430	NO2; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
429	NO2; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	15% :: 5%
539	NO2; UARS		UARS							
743	NO2 profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC						
519	NO2 total column; in situ (aircraft)		in situ (aircraft)							
474	NO3; ground absorption; in situ	ground absorption	in situ		at night	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
475	NO3; in situ (balloon)		in situ (balloon)		at night	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
507	NOy conc; in situ (aircraft)		in situ (aircraft)					BL		
418	O (3P); in situ (balloon)		in situ (balloon)		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	30% :: 10%
417	O (3P); in situ (rocketsonde)		in situ (rocketsonde)		1 wk	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	30% :: 10%
484	O2 isotope fractionation; in situ		in situ							
342	O2 profile (atmospheric pressure); TBD		TBD	NMC						
422	O3; Dobson		Dobson	Dobson network	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
420	O3; ground microwave; in situ	ground microwave	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
423	O3; in situ		in situ	ECC	12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
421	O3; TOMS; Meteor-3	TOMS	Meteor-3		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
424	O3; ATMOS; Shuttle	ATMOS	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
419	O3; SBUV; Shuttle	SSBUV	Shuttle		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	2.5% :: 2%
535	O3; UARS		UARS							
503	O3 conc; in situ (aircraft)		in situ (aircraft)					BL		
486	O3 conc; TOMS; Meteor-3 + others	TOMS	Meteor-3 + others	NASA	1 wk	100 km :: G		TBD	ppmv	25% :: 10%
554	O3 conc; SBUV/2; NOAA	SBUV/2	NOAA							
553	O3 conc; SBUV; Shuttle	SSBUV	Shuttle							
331	O3 data; in situ (radiosonde)		in situ (radiosonde)	NMC				BL		
21	O3 data; SBUV; Nimbus-7	SBUV	Nimbus-7	NSSDC				BL		
23	O3 data; TOMS; Nimbus-7	TOMS	Nimbus-7	NSSDC				BL		
338	O3 data; GOMR; NOAA	GOMR	NOAA							
623	O3 profile; operational satellites		operational satellites					AL, PL		
742	O3 profile; SAGE I, II; SAGE, ERBS, AEM	SAGE I, II	SAGE, ERBS, AEM	NSSDC						
624	O3 profile; UARS		UARS					AL, PL		

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
798	O3 profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	8/day(d,n)	280 km :: G	3 km :: Atmos	BL		
801	O3 profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	8/day(d,n)	280 km :: G	3 km :: Atmos	BL		
552	O3 total column; TOMS; ADEOS	TOMS	ADEOS							
295	O3 total column; Earth Probe		Earth Probe					BL, AL, PL		
516	O3 total column; in situ (aircraft)		in situ (aircraft)							
296	O3 total column; TOMS; Meteor-3	TOMS	Meteor-3					BL, AL, PL		
551	O3 total column; TOVS; NOAA	TOVS	NOAA							
18	ocean color / chlorophyll data; CZCS; Nimbus-7	CZCS	Nimbus-7	NSSDC				BL		
335	ocean color / temperature data; OCTS; ADEOS	OCTS	ADEOS							
821	ocean color data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL, AL		
111	ocean color data; FLI; in situ (aircraft)	FLI	in situ (aircraft)					BL		
592	ocean color data; CZCS; Nimbus-7	CZCS	Nimbus-7			:: Ocean/Coastal				
32	ocean color data; SeaWiFS; Seastar	SeaWiFS	Seastar	NSSDC				BL, PL		
844	ocean density profiles; in situ (ship/buoy)		in situ (ship/buoy)			:: Ocean/RL		BL, PL		
636	ocean heat exchange; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		25% ::
637	ocean heat exchange; TOPEX		TOPEX					AL, PL		25% ::
640	ocean internal temperature; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		0.1 K ::
822	ocean physics and biological data; in situ		in situ					BL		
64	ocean salinity; in situ		in situ					BL		
653	ocean wave data; in situ (buoy)		in situ (buoy)	NOAA/DBC				BL, AL		
195	oceanographic data; in situ (optical buoy system)		in situ (optical buoy system)					BL, PL		
463	OC10; ground absorption; in situ	ground absorption	in situ		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
464	OC10; in situ (aircraft)		in situ (aircraft)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	20% :: 10%
512	OC10 conc; in situ (aircraft)		in situ (aircraft)					BL		
531	OC10 total column; in situ (aircraft)		in situ (aircraft)							
529	OC10 total column; in situ (aircraft)		in situ (aircraft)							
454	Of1; in situ (balloon)		in situ (balloon)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
455	Of1; in situ (rocketsonde)		in situ (rocketsonde)		12 hr	30 x 4 dg :: G	3 km :: Mid-Atmos	BL, AL	mixing ratio	25% :: 10%
794	operational mesoscale forecasts; in situ / optical and constituent data seas; in situ		in situ / Suezehanna					BL		
192	optical and constituent data seas; in situ		in situ							
150	organic suspended matter concentration; in situ		in situ (ship)			5 m :: Ocean/L	:: Sfc	AL	g/m^3	10% :: 5%
750	other level 2 data; in situ (radiosonde)		in situ (radiosonde)	NMC				BL		
731	ozone optical depth; GOMR; NOAA	GOMR	NOAA		hourly	10 km ::		AL, PL	eq atm.	20% :: 10%
145	PAR (400 - 700 nm); in situ (ship, buoy)		in situ (ship, buoy)			:: Ocean/L	:: Sfc	AL	quanta/s/m^2	5% :: 2%
135	particle absorption coefficient; in situ (ship)		in situ (ship)			:: Ocean/L	1 m ::	AL	/m	10% :: 4%
616	pCO2; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		2% ::
737	photosynthetically active radiation (PAR); in situ		in situ		15 days	1 km ::		AL, PL	W/m^2	100 :: 100
130	phytoplankton; in situ (ship)		in situ (ship)			:: Ocean/L	5 m ::	AL	mg/m^3	
133	phytoplankton pigment; in situ (ship)		in situ (ship)			:: Ocean/L	5 m ::	AL	mmole/l	5% :: 1-2%
132	phytoplankton pigment: chlorophyll-a and		in situ (ship)			:: Ocean/L	5 m ::	AL	mg/m^3	15% :: 10%
615	phaeopigment-a; in situ (ship)		in situ (ship)							
615	pigment conc; TOPEX		TOPEX					AL, PL		
361	planetary boundary height; model		model	NWP				BL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
669	precipitable water; operational satellites		operational satellites					AL, PL		3% ::
4	precipitation; SSM/I; DMSP	SSM/I	DMSP	NODS				BL, PL		10% (5% global H2O cycle) ::
604	precipitation; Earth Probe		Earth Probe					AL, PL		
45	precipitation; in situ		in situ	NCDC				BL, PL		
805	precipitation; in situ		in situ	WMO, NWS-RFO, NWS-RFC, Europe?	1 hr	1 km :: R		BL		
602	precipitation; in situ (weather station)		in situ (weather station)					AL, PL		10% (5% global H2O cycle) ::
189	precipitation; MSU; NOAA	MSU	NOAA	NESDIS	2/day	150 km :: Ocean		BL		
603	precipitation; operational satellites		operational satellites					AL, PL		10% (5% global H2O cycle) ::
318	precipitation; SMMR; SEASAT	SMMR	SEASAT	NODS				BL, AL, PL		
319	precipitation; MSU; TIROS	MSU	TIROS	NESDIS				BL, AL, PL		
487	precipitation as rain; geostationary satellite		geostationary satellite	NOAA	1 wk	1 km :: G		AL	mm/wk	10% :: 10%
488	precipitation as rain; TRMM		TRMM	NASA	1 mo	5 x 5 dg :: R/Tropics		AL	mm/wk	
274	precipitation data; in situ		in situ	DNAEE pluviometric network				BL		
180	precipitation data; rain gage; in situ	rain gage	in situ	TBD						
36	precipitation data; TRMM		TRMM	NSSDC	hourly	1 km ::		BL	hr	1 :: 1
729	precipitation duration; in situ		in situ	NSSDC				BL		
324	precipitation estimates; SMMR; Nimbus-7	SMMR	Nimbus-7		hourly	1 km ::		AL, PL	mm/hr	25% :: 25%
727	precipitation intensity; in situ		in situ		2/day [d.n], 7 mo	150 km :: G		BL	mm/hr	50% :: 25%
362	precipitation rate; SSM/I; NOAA	SSM/I	NOAA	DMSP	2/day [d.n]	22 km :: G		AL	mm/hr	50% :: 25%
377	precipitation rate; TMI; TRMM	TMI	TRMM	MSFC	hourly	1 km ::		AL, PL	mm	25% :: 25%
728	precipitation storm depth; in situ		in situ					BL		
78	precipitation/storm data; radar; in situ / EMEX	radar	in situ / EMEX					BL		
222	precipitation/storm data; radar; TAMEX	radar	TAMEX							
343	precision control point Chip files; in situ		in situ							
243	precision control points									
808	pressure level, 500 mb; in situ		in situ	NOAA	5 yrs	1 km :: R		BL		
72	pressure-height field; model analysis (NMC)		model analysis (NMC)	WMO, NWS-RFO, NWS-RFC, Europe?	1 hr			BL		
770	primary and secondary land cover database; in situ		in situ	NMC				AL		
146	primary productivity (14-C); in situ (ship, buoy)		in situ (ship, buoy)	Henderson-Sellers, 1984				BL		
842	primary productivity vs irradiance data; in situ (ship)		in situ (ship)					AL	mg C/m <sup>3</sup> /hr	20-100 % :: 5-10 %
477	PSC / Aerosols; Lidar; in situ	Lidar	in situ		12 hr	15 x 4 dg :: G		BL, PL	extinction ratio	20% :: 10%
650	radar data; NEXRAD; in situ	NEXRAD	in situ	NWS				BL, AL		
348	radiance; OCTS; ADEOS	OCTS	in situ							
372	radiance; AVHRR-LAC; ESA	AVHRR-LAC	ESA	NESDIS	2/day [d.n]	1 km :: G; subsampled 2x2 pixel sets :: 1 sec/4 km		AL	W/m <sup>2</sup> /sr/μm	SW5%, LW.2K :: SW1%, LW0.1K
374	radiance; HIRS; ESA	HIRS	ESA	NESDIS	2/day [d.n]	17 km :: G		AL	W/m <sup>2</sup> /sr/μm	LW.2K :: LW.1K

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. : Cover.	Vertical Resol. : Cover.	Time frame	Units	Accuracy Abs. : Rel
166	radiance; VAS/VISSR; GOES	VAS/VISSR	GOES	NESDIS	18/day [d,n]	1, 4, 8 km :: R	N/A :: Atmos		W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.2K
376	radiance; VAS/VISSR; GOES	VAS/VISSR	GOES	NESDIS	12/day [d,n]	4 km :: R [30 · 10x10dg regions]	N/A :: Atmos	AL	W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.2K
42	radiance; in situ		in situ					BL, PL		
360	radiance; TM; Landsat	TM	Landsat	EOSAT	100 scenes	30 m :: R	N/A :: Atmos	BL	W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.1K
164	radiance; AVHRR; NOAA	AVHRR	NOAA	NESDIS	1/day	1 km :: Canada/R	N/A :: Atmos			0.05 :: 0.001
25	radiance; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS				BL		
188	radiance; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS	2/day [d,n]	4.0 km :: G	N/A :: Atmos	AL		
165	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	2/day [d,n]	1.0 km :: G	N/A :: Atmos	AL	W/m <sup>2</sup> /sr/um	SW 5%, LW.0.2K :: SW 1%, LW.0.1K
572	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS						
710	radiance; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	2/day [d,n]	1 km ::		BL		
167	radiance; HIRS; NOAA	HIRS	NOAA	NESDIS	2/day [d,n]	15 km :: R	N/A :: Atmos		W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.2K
359	radiance; HIRS; NOAA	HIRS	NOAA	NESDIS	2/day [d,n], 7 mo	17 km :: G	N/A :: Atmos	BL	W/m <sup>2</sup> /sr/um	LW.2K :: LW.1K
56	radiance; HIRS2; NOAA	HIRS2	NOAA	NESDIS				BL		
120	radiance; MSU; NOAA	MSU	NOAA	NESDIS				BL		
57	radiance; SSU; NOAA	SSU	NOAA	NESDIS				BL		
481	radiance; TOVS; NOAA	TOVS	NOAA	NOAA						
375	radiance; HIRS; NOAA / TRMM	HIRS	NOAA / TRMM	NESDIS	2/day [d,n]	17 km :: G	N/A :: Atmos	AL	W/m <sup>2</sup> /sr/um	LW.2K :: LW.1K
248	radiance; AMSU; NOAA-11	AMSU	NOAA-11	NESDIS				BL		
373	radiance; AVHRR-GAC; TRMM	AVHRR-GAC	TRMM	GSFC	2/day [d,n]	2 km :: G	N/A :: Atmos	AL	W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.0.1K
177	radiance based calibration; ER-2		ER-2							
347	radiance, multi-angle images; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)							
823	radiance, upwelling / downwelling; in situ		in situ							
699	radiance: 10 bands; VISSR; GOES	VISSR	GOES		12/day	4 km :: R(10deg)		BL		
677	radiance: 2 bands; VISSR; GOES / FIRE	VISSR	GOES / FIRE	NCDS	24/day	1, 8 km :: R(1000km)		AL, PL		
674	radiance: 3 bands; ERBE; FIRE	ERBE	FIRE	NCDS	4/day	30 km :: R(1000km)		BL		
686	radiance: 5 bands; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NOAA	1/day	1 km :: Polar		BL		
675	radiance: 5 bands; AVHRR/HRPT; NOAA/FIRE	AVHRR/HRPT	NOAA/FIRE	NCDS	4/day	1 km :: R(1000km)		BL		
358	radiance: 5 channels; AVHRR-GAC; NOAA	AVHRR-GAC	NOAA	NESDIS	2/day [d,n], 7 sel. mo	4.0 km :: G	N/A :: Atmos	BL	W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.0.1K
357	radiance: 5 channels; AVHRR-LAC; NOAA	AVHRR-LAC	NOAA	NESDIS	1/day [d,n], 1 yr	1 km :: Polar (65-90 dg, N/S)	N/A :: Atmos	BL	W/m <sup>2</sup> /sr/um	SW5%, LW.2K :: SW1%, LW.0.1K
679	radiance: 7 bands; TM; Landsat	TM	Landsat	EOSAT	10 scenes	30 m :: R(180km)		BL		
687	radiance: 7 bands; TM; Landsat	TM	Landsat	EOSAT	100 scenes	30 m :: Polar(180km)		BL		
676	radiance: 8 bands; HIRS; FIRE	HIRS	FIRE	NCDS	4/day	17 km :: R(1000km)		BL		
191	radiance for SST; ATSR	ATSR						PL		
141	radiance: 0.41 to 0.75 um; in situ (aircraft)		in situ (aircraft)			:: Ocean/L	:: Sfc	AL	uW/cm <sup>2</sup> /nm/sr	10% :: 5%
643	radiation budget; Earth Probe		Earth Probe					AL, PL		
642	radiation budget; operational satellites		operational satellites					AL, PL		
641	radiation budget; TOPEX		TOPEX					AL, PL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
184	radiation budget components in snow covered regions									
736	radiative flux (LW), outward, surface; AMRIR; NOAA	AMRIR	NOAA	NASA7	2/day	1 km ::		AL, PL	W/m <sup>2</sup>	15 :: 15
735	radiative flux (SW), outward, surface; AMRIR; NOAA	AMRIR	NOAA		2/day	1 km ::		AL, PL	W/m <sup>2</sup>	15 :: 15
685	radiative fluxes (LW,SW); in situ (aircraft) / FIRE		in situ (aircraft) / FIRE	NCDS	5 sec	0.5 km :: variable		BL		
682	radiative fluxes (LW,SW), surface; FIRE		FIRE	NCDS	1 min	2-18 km :: variable		BL		
691	radiative fluxes, surface; SRB	SRB		NCDS	8/day	5 deg :: G		BL		
692	radiative fluxes, TOA; ERBE; Nimbus-6,-7	ERBE	Nimbus-6,-7	NCDS	2/day	10 deg :: G		BL		
688	radiative fluxes, TOA; ERBE	ERBE		NCDS	(2-4)/day	2.5 deg :: G		BL		
176	reflectance factor; AMRIR; NOAA	AMRIR	NOAA	NESDIS	1/day	0.5 km :: Canada/R	N/A :: Atmos	AL, PL		0.05 :: 0.001
718	relative humidity; in situ		in situ		hourly	1 km ::		BL, PL		10% :: 10%
754	relative humidity; AVHRR; NOAA	AVHRR	NOAA	NESDIS						
267	reservoir chemistry; in situ		in situ	CAMREX						
265	river chemistry (dissolved and particulate); in situ		in situ	CAMREX						
276	river discharge rate; in situ		in situ	DNAEE / INEMET						
221	river inflow; in situ		in situ	Soviet Atlas, stations						
266	river sediment load; in situ		in situ	CAMREX						
496	river stage; in situ		in situ		1 wk - 1 mo	:: selected locations		BL	m	TBD :: TBD
795	river widths; Lidar; in situ / Susquehanna	Lidar	in situ / Susquehanna					BL		
571	river/lake ice data; SSM/I; DMSP	SSM/I	DMSP			30 km :: R/Canada				
566	river/lake ice data; SAR (C band); ERS-1	SAR (C band)	ERS-1	ESA	2mo (Oct.-May)	30 m :: R/Canada				
569	river/lake ice data; SAR (C,L,P band); in situ (aircraft)	SAR (C,L,P band)	in situ (aircraft)	NASA		:: R/Canada				
568	river/lake ice data; SAR (X,C band); in situ	SAR (X,C band)	in situ (aircraft)	CCRS		:: R/Canada				
570	river/lake ice data; SMMR; Nimbus-7	SMMR	Nimbus-7			30 km :: R/Canada				
567	river/lake ice data; SAR (C band); RADARSAT	SAR (C band)	RADARSAT	CCRS	2/mo (Oct.-May); 3 day (ice break)	10, 30, 100 m :: R/Canada				
323	run-off data; in situ		in situ	USGS, HCDN, WMO				BL		
730	runoff; in situ		in situ		hourly			AL, PL	cm	
673	runoff; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		5% ::
787	runoff; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
275	runoff mechanisms and infiltration; in situ		in situ	DNAEE / INEMET				BL		
614	salinity; in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		0.02% ::
290	standard meteorological data; in situ (aircraft)		in situ (aircraft)	NMC				BL, AL, PL		
289	standard meteorological data; in situ (rawinsonde)		in situ (rawinsonde)	NMC				BL, AL, PL		
704	scene radiance data; TM; Landsat	TM	Landsat	EOSAT	21 day	30 m ::		BL		
707	scene radiance data; SPOT		SPOT	SPOT	16 day	20 m ::		BL		
825	scene radiance, vegetation; ASAS; in situ (aircraft)	ASAS	in situ (aircraft)					BL		
826	scene radiance, vegetation; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL		
106	scene radiances; TM simulator (NS-001); in situ (aircraft)	TM simulator (NS-001)	in situ (aircraft)	NASA				BL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
196	scene radiances; TMS; in situ (aircraft)	TMS	in situ (aircraft)							
16	scene radiances; TM; Landsat	TM	Landsat	EDC, EOSAT				BL		
33	scene radiances; SPOT		SPOT	CNES				BL, AL, PL		
634	sea ice cover; operational satellites		operational satellites					AL, PL		3% ::
558	sea ice data; SSM/I; DMSP	SSM/I	DMSP			30 km :: R/Canada				
557	sea ice data; SAR; ERS-1	SAR	ERS-1	ESA		30 m :: R/Canada				
285	sea ice data; AIRR; in situ (aircraft)	AIRR	in situ (aircraft)							
283	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	CCRS	1/keas	6m :: Coastal/Canada		BL, AL, PL		
284	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	AES		50 m ::		BL, AL, PL		
555	sea ice data; SAR; in situ (aircraft)	SAR	in situ (aircraft)	NASA		Coastal/Canada high :: R/Canada				
556	sea ice data; SAR; RADARSAT	SAR	RADARSAT		3 day	100 m :: R/Canada				
35	sea level and other data; ALT; TOPEX	ALT	TOPEX	JPL	1/(10 day)	7 km :: G		BL	cm	14 :: 4
9	sea level data; ALT; ERS-1, 2	ALT	ERS-1, 2	ESA				BL, PL		
785	sea level data; altimeter; MOS-2	altimeter	MOS-2	NASDA				BL, AL, PL		
161	sea level pressure analysis			NMC, ECMWF						
163	sea soundings; in situ (ship)		in situ (ship)							
316	sea surface temperature (SST); NSCAT; ADEOS	NSCAT	ADEOS	JPL				BL, AL, PL		
746	sea surface temperature (SST); in situ (buoy)		in situ (buoy)	NOAA DBC				BL		
612	sea surface temperature (SST); in situ (ship, buoy)		in situ (ship, buoy)					AL, PL		0.2 K ::
27	sea surface temperature (SST); AVHRR; NOAA	AVHRR	NOAA	NESDIS				BL, PL		
846	sea surface temperature (SST); AVHRR; NOAA	AVHRR	NOAA	NESDIS	1/wk, 7 sel. mo	100 km :: Ocean	N/A :: Sfc	BL	K	1 K :: 0.5 K
613	sea surface temperature (SST); operational satellites		operational satellites					AL, PL		0.2 K ::
317	sea surface temperature (SST); SMMR; SEASAT	SMMR	SEASAT	NODS				BL		
378	sea surface temperature (SST); AVHRR; TRMM	AVHRR	TRMM	NESDIS	1/wk	1.25 dg :: Ocean	N/A :: Sfc	AL	K	1 K :: 0.5 K
49	sea surface temperature (SST)			CSIRO				BL, PL		
228	seismicity and seismic profiles; in situ		in situ					BL		
270	sensible heat flux; VISSR; GOES	VISSR	GOES							
112	sky radiance data (SBRDF)			UCL				BL		
394	snow contaminants; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	mg/m <sup>3</sup>	20% :: 20%
395	snow contaminants; Landsat		Landsat		1 wk - 1 mo	50 m :: Land/L		BL, AL	mg/m <sup>3</sup>	20% :: 20%
396	snow contaminants; SPOT		SPOT		1 wk - 1 mo	50 m :: Land/L		BL, AL	mg/m <sup>3</sup>	20% :: 20%
349	snow cover; SSM/I; DMSP	SSM/I	DMSP							
336	snow cover; in situ		in situ							
792	snow cover; in situ / Susquehanna		in situ / Susquehanna	NSIDC						
77	snow cover; SMMR; Nimbus-7	SMMR	Nimbus-7			:: Land/R		BL		
659	snow cover; operational satellites		operational satellites					BL		
564	snow cover data; SSM/I; DMSP	SSM/I	DMSP		1 day	30 km :: R/Canada		AL, PL		10% ::
559	snow cover data; SAR (C band); ERS-1	SAR (C band)	ERS-1	ESA	1 wk	30 m :: R/Canada				
563	snow cover data; Passive Radiometer; in situ	Passive	in situ	AES, NASA						
562	snow cover data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)	NASA						
561	snow cover data; SAR (X.C.L.-band); in situ	SAR (X.C.L.-band)	in situ (aircraft)	NASA						
560	snow cover data; SAR (C band); RADARSAT	SAR (C band)	RADARSAT		1 wk	30, 100 m :: R/Canada		AL, PL		0.02 ::
635	snow cover/land albedo; operational satellites		operational satellites					BL	km <sup>2</sup>	10% :: 10%
402	snow covered area; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L				



Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
403	snow covered area; Landsat		Landsat		1 wk - 1 mo	50 m :: Land/L		BL, AL	km <sup>2</sup>	10% :: 10%
404	snow covered area; SPOT		SPOT		1 wk - 1 mo	50 m :: Land/L		BL, AL	km <sup>2</sup>	10% :: 10%
660	snow depth; operational satellites		operational satellites					AL, PL		10% ::
397	snow grain size; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	mm	200% :: 200%
398	snow grain size; Landsat		Landsat		1 wk - 1 mo	50 m :: Land/L		BL, AL	mm	200% :: 200%
389	snow liquid water content; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	N/A	100% :: 100%
388	snow liquid water content; SAR; in situ (aircraft)	SAR	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	N/A	100% :: 100%
390	snow liquid water content; SIR-C; Shuttle	SIR-C	Shuttle		1 wk - 1 mo	50 m :: Land/L		BL	N/A	100% :: 100%
201	snow reflectance							BL		
387	snow surface temperature; Landsat		Landsat		1 wk	500 m :: Land/L		BL	K	1 K :: 0.3 K
386	snow surface temperature; AVHRR; NOAA	AVHRR	NOAA		1 wk	500 m :: Land/L		BL	K	1 K :: 0.3 K
410	snow-water equivalence; SSM/I; DMSP	SSM/I	DMSP		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
408	snow-water equivalence; SAR; ERS-1	SAR	ERS-1		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
406	snow-water equivalence; DLR Radar; in situ	DLR Radar	in situ		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
405	snow-water equivalence; SAR; in situ (aircraft)	SAR	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
409	snow-water equivalence; SAR; RADARSAT	SAR	RADARSAT		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
407	snow-water equivalence; SIR-C; Shuttle	SIR-C	Shuttle		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
580	SO2 conc; COSPEC; in situ (aircraft)	COSPEC	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	m	20% :: 20%
582	SO2 conc data; spectrometer network; in situ	spectrometer network	in situ	Brewer						
583	SO2 conc data; in situ (balloon dustsonde)		in situ (balloon dustsonde)							
573	SO2 data (for eruption detection and conc); TOMS; Meteor-3	TOMS	Meteor-3	NASA						
574	SO2 data (for eruption detection and conc); GOMR; NOAA	GOMR	NOAA	NOAA						
575	SO2 data (for eruption detection); TOMS; ADEOS	TOMS	ADEOS	JPL						
576	SO2 data (for eruption detection); Earth Probe		Earth Probe							
339	soil / terrain map; in situ		in situ							
263	soil carbon database; in situ		in situ							
260	soil distribution; in situ		in situ	field, RADAM						
261	soil hydraulic properties; in situ		in situ							
80	soil maps (7.5 min topo)		in situ	USDA				BL		
259	soil moisture; in situ		in situ							
765	soil moisture; SAR; in situ (aircraft)	SAR	in situ (aircraft)							10% (5% global H2O cycle) ::
610	soil moisture; in situ (aircraft, ground station)		in situ (aircraft, ground station)					AL, PL		10% (5% global H2O cycle) ::
611	soil moisture; operational satellites		operational satellites					AL, PL		30% :: 30%
493	soil moisture (derived from level-1b data); SMMR; Nimbus-7	SMMR	Nimbus-7		1 wk - 1 mo	25 km :: G		BL	% saturation	
262	soil runoff database; in situ		in situ							
838	soil spectral data; field spectrometer; in situ	field spectrometer	in situ					BL		
828	soil spectral data; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL		
715	soil temperature; AMRIR; NOAA	AMRIR	NOAA		1-12 hr	500 m ::		AL, PL	K	1K :: 0.5K

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
786	soil type; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
76	soil types							BL		
803	soil wetness; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
97	solar activity (sunspot, flare); SMM		SMM	NASA				BL		
416	solar irradiance; SSBUV; Shuttle	SSBUV	Shuttle		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	W/m <sup>2</sup> /nm	5% :: 1%
96	solar irradiance; SMM		SMM	NASA				BL		
627	solar irradiance; UARS		UARS					AL, PL		0.05% ::
14	sounding data; VAS; GOES	VAS	GOES	NESDIS				BL		
28	sounding data; TOVS; NOAA	TOVS	NOAA	NESDIS				BL	none	5% :: 1%
399	spectral albedo; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL, AL	none	5% :: 1%
400	spectral albedo; Landsat		Landsat		1 wk - 1 mo	50 m :: Land/L		BL, AL	none	5% :: 1%
401	spectral albedo; SPOT		SPOT					AL	/m	5% :: 1-2%
127	spectral beam attenuation coefficient; in situ (ship, buoy)		in situ (ship, buoy)				1 m :: 0-150 m			
829	spectral data in snow regions; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL, PL		
577	spectral radiances (4-15 µm); IMG; ADEOS	IMG	ADEOS	JPL						
834	spectral reflectance; PIDAS; in situ	PIDAS	in situ					BL		
836	spectral reflectance; VNIR portable spectro-radiometer; in situ	VNIR portable spectro-radiometer	in situ					BL		
833	spectral reflectance; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL		
835	spectral reflectance; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)					BL		
131	spectral reflectance factor; in situ (ship)		in situ (ship)					AL	%	5% :: 2%
824	spectral reflectance, geologic mapping; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)					BL		
832	spectral reflectance, mineral; VNIR portable spectro-radiometer; in situ	VNIR portable spectro-radiometer	in situ					BL, PL		
830	spectral reflectance, mineral; AVIRIS; in situ	AVIRIS	in situ (aircraft)					BL, PL		
831	spectral reflectance, mineral; TIMS; in situ (aircraft)	TIMS	in situ (aircraft)					BL, PL		
139	spectral solar atmospheric transmission; in situ (ship, station)		in situ (ship, station)					AL	%	:: 1%
294	standard meteorological analyses; model		model	UKMO, FNMWC, ARGC				BL, AL, PL		
310	standard reference models (ocean basin outlines & depth, land_sfc elev. & veg, drainage basin); model		model	EOSDIS				AL		
565	stereo images; SPOT		SPOT							
837	stereoscopic images; SPOT		SPOT					BL, PL		
118	storm data; in situ / STREX		in situ / STREX					BL		
788	stream chemistry; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
235	stream flow records; in situ		in situ		mo, yr			BL		
50	surface air pressure			NMC				BL, PL		
598	surface air temperature; in situ (weather station)		in situ (weather station)					AL, PL		0.2 K ::

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
225	surface air temperature; AMRIR; NOAA	AMRIR	NOAA	NESDIS	12 hr	1 km :: G		BL, PL		
714	surface albedo; VISSR; GOES	VISSR	GOES					AL, PL	%	10% :: 10%
224	surface albedo; AMRIR; NOAA	AMRIR	NOAA	NESDIS				BL, PL		
654	surface analysis fields; model		model	NMC/ECMWF/FN OC	6-12 hr	2.5 x 2.5 dg :: Ocean/G	N/A :: Sfc	AL		
346	surface BRDFs; Deering Parabola; in situ	Deering Parabola	in situ							
244	surface characteristics (geophysical)				5 yrs	:: G		BL		
384	surface elevation; in situ		in situ	topographic maps	N/A	20 m :: Land/L		BL	m	1 m :: 20 m
383	surface elevation; SPOT		SPOT		N/A	20 m :: Land/L		BL, AL	m	1 m :: 20 m
385	surface energy fluxes; AVHRR; NOAA	AVHRR	NOAA		1 wk	100 m :: Land/L		BL	W/m^2	10% :: 10%
10	surface features; SAR; ERS-1	SAR	ERS-1	ESA				BL, PL		
320	surface features; SAR; SEASAT	SAR	SEASAT	JPL				BL, AL, PL		
108	surface features; SAR; SIR-B	SAR	SIR-B					BL		
321	surface features; SAR; SIR-C	SAR	SIR-C	SAR				BL		
287	surface observations (NMC ADP reports; land, aircraft, ship, buoy, Dobson measurements); in situ		in situ	NMC				BL, AL, PL		
759	surface photography (1:10,000 - 1:200,000); in situ (aircraft)		in situ (aircraft)					BL		
232	surface photography (1:10,000 - 1:200,000); operational satellites		operational satellites					BL		
341	surface pressure; in situ		in situ	FNOC						
218	surface radiation flux (net shortwave); CEAREX		CEAREX	CEAREX, Russian Sns.						
217	surface radiation flux (net shortwave); ERBI	ERBI								
721	surface soil moisture; in situ		in situ		hourly	30 m ::		AL, PL	% vol	20% :: 20%
299	surface stress analyses; model		model	NMC				BL		
212	surface temperature; AVHRR; NOAA	AVHRR	NOAA	NESDIS				BL, PL		
211	surface temperature; TOVS; NOAA	TOVS	NOAA	NESDIS				BL		
328	surface vegetation; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC						
719	surface wind; in situ		in situ		hourly	25 km ::		AL, PL	m/sec	10% :: 10%
210	surface wind; CEAREX		CEAREX							
209	surface wind; in situ (buoy)		in situ (buoy)					BL, PL		
5	surface wind speed; SSM/I; DMSP	SSM/I	DMSP	IOSDL				PL		
51	surface wind speed; in situ		in situ	NMC				BL, AL, PL		
315	surface wind speed; altimeter; MOS-2	altimeter	MOS-2	NASDA				BL, AL, PL		
313	surface wind velocity; scatterometer; MOS-2	scatterometer	MOS-2	NASDA				BL, AL, PL		
311	surface wind velocity; scatterometer; SEASAT	scatterometer	SEASAT	NODS				BL		
649	surface winds; Earth Probe		Earth Probe					AL, PL		10% ::
648	surface winds; in situ (weather station)		in situ (weather station)					AL, PL		10% ::
804	temperature; in situ		in situ	WMO, NWS-RPO, NWS-RFC, Europe?	1 hr	1 km :: R		BL		
157	temperature analysis			NMC, ECMWF						
325	temperature estimates; SMMR; Nimbus-7	SMMR	Nimbus-7	NSSDC				BL		
415	temperature profile; Lidar; in situ	Lidar	in situ		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	K	2 K :: 0.5 K
379	temperature profile; in situ		in situ	NMC	4/day[d,n]	1.25 dg :: G	1 km :: Atmos	AL	K	1 K :: 1 K

Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
694	temperature profile; in situ		in situ	NMC, ECMWF	4/day	1.25 deg :: G.R(10 deg)		AL, PL		
588	temperature profile; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)							
589	temperature profile; TMS; in situ (aircraft)	TMS	in situ (aircraft)							
414	temperature profile; in situ (balloon)		in situ (balloon)							
600	temperature profile; in situ (weather station)		in situ (weather station)		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	K	2 K :: 0.5 K
601	temperature profile; operational satellites		operational satellites					AL, PL		1.0 K ::
534	temperature profile; UARS		UARS					AL, PL		1.0 K ::
380	temperature profile (TRMM); in situ		in situ	NMC	4/day[d.n]	1.25 dg :: G	1 km :: Atmos	AL	K	1 K :: 1 K
680	temperature profiles; FIRE		FIRE	NCDS, NMC	(2-8)/day	2.5 deg :: R(1000km)		BL		
354	temperature profiles; GMS, GOES / ISCCP		GMS, GOES / ISCCP	GISS	8/day[d.n]	280 km :: G	3 km :: Atmos	BL		
46	temperature profiles; in situ (radiosonde)		in situ (radiosonde)	NCDC				BL, PL		
84	temperature profiles; in situ (radiosonde)		in situ (radiosonde)	NMC				BL		
355	temperature profiles; INSAT, METEOSAT, NOAA / ISCCP		INSAT, METEOSAT, NOAA / ISCCP	NCDS	8/day[d.n]	280 km :: G	3 km :: Atmos	BL		
755	temperature soundings; CEAREX		CEAREX	CEAREX, Russian Sns.						
198	thermal data; in situ (aircraft)		in situ (aircraft)							
87	tide gauge sea level values; in situ		in situ	IERS				BL		
381	topographic elevation; in situ		in situ		1/mission	10 km :: Land	N/A :: Sfc	AL	km	200 m :: 200 m
279	topographic map database (1:250,000)			DSG				BL		
712	topography; SPOT		SPOT		1 yr	30 m :: Land		AL, PL	m	5m :: 5m
241	topography			USGS	5 yrs			BL		
138	total dissolved organic carbon; in situ (ship)		in situ (ship)			:: Ocean/L		AL	mg/m^3	
149	total suspended matter concentration; in situ (ship)		in situ (ship)			5 m :: Ocean/L	:: Sfc	AL	g/m^3	10% :: 5%
306	tracking data; SLR; Ajisai	SLR	Ajisai					BL, AL, PL		
304	tracking data; SLR; Eiallon	SLR	Eiallon					BL, AL, PL		
303	tracking data; SLR; LAGEOS-1,2,3	SLR	LAGEOS-1,2,3					BL, AL, PL		
307	tracking data; SLR; Starlette	SLR	Starlette					BL, AL, PL		
305	tracking data; SLR; Stella	SLR	Stella					BL, AL, PL		
845	turbulence dissipation rate; in situ (ship/buoy)		in situ (ship/buoy)			:: Ocean/R/L		BL, PL		
282	upper air analyses			NMC				BL		
638	upper air temperature; in situ (weather station)		in situ (weather station)					AL, PL		0.3 K ::
639	upper air temperature; operational satellites		operational satellites					AL, PL		0.3 K ::
125	upwelling spectral radiances; in situ (ship, buoy)		in situ (ship, buoy)							
752	UTCSR SLR and IRIS VLBI independent length-of-day time-series; in situ		in situ	IERS		:: Ocean/L	1 m :: 0-150 m	AL	uW/cm^2/nm/sr	5% :: 1-2 %
89	UTCSR SLR and IRIS VLBI independent polar motion time-series; in situ		in situ	IERS				BL		
278	vegetation and soil database; in situ		in situ							
619	vegetation distribution; operational satellites		operational satellites	RADAMBRASIL				BL		
609	vegetation index; operational satellites		operational satellites					AL, PL		5% ::
26	vegetation index (NDVI); AVHRR; NOAA	AVHRR	NOAA	NESDIS				AL, PL		5% ::
326	vegetation index (NDVI); AVHRR; NOAA	AVHRR	NOAA	NOAA/NESDIS				BL, PL		
231	vegetation maps (1:50,000 - 1:1,000,000)							BL		

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
657	vegetation phenology; operational satellites		operational satellites					AL, PL		
256	vegetation spectral mosaic / vegetation mixture model; AVHRR; NOAA	AVHRR	NOAA							
301	vegetation structure; in situ		in situ					BL, AL, PL		
254	vegetation structure (canopy config., roughness, physiological cond., hydrological state); in situ		in situ							
491	vegetation temperature; in situ (weather station)		in situ (weather station)	NMC +	hourly	30 m ::		TBD	K	
739	vegetation transpiration; AMRIR; NOAA	AMRIR	NOAA					AL, PL	mm/day	10% :: 10%
253	vegetation type (plant distribution); in situ		in situ							
628	vegetation/land albedo; operational satellites		operational satellites					AL, PL		0.02 ::
652	visible and IR images; VISSR; GOES	VISSR	GOES	NESDIS	as required			AL		
245	volcanic plume tracks database; operational satellites		operational satellites	USGS				BL		
587	volcano data; Zeiss; in situ (aircraft)	Zeiss	in situ (aircraft)							
586	volcano location digital map; in situ		in situ							
153	water leaving radiances; in situ (aircraft)		in situ (aircraft)		each pass	10 m :: Ocean/R	:: Sfc	BL	W/m <sup>2</sup> /sr/mm	5% :: 4%
793	water utilization; in situ / Susquehanna		in situ / Susquehanna	USGS, USDA, NCDC				BL		
767	water vapor; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)							
268	water vapor; in situ (rawinsonde)		in situ (rawinsonde)							
363	water vapor; model		model	NWP				BL		
670	water vapor column amount; operational satellites		operational satellites					AL, PL		3% ::
695	water vapor profile; in situ		in situ	NMC, ECMWF	4/day	1.25 deg :: G.R(10 deg)		AL, PL		
732	water vapor total column; in situ (radiosonde)		in situ (radiosonde)		12 hr	10 km ::		AL, PL	cm	5% :: 5%
126	water-leaving radiances; in situ (ship, buoy)		in situ (ship, buoy)			:: Ocean/L	1 m ::	AL	uW/cm <sup>2</sup> /nm/sr	8% :: 3%
162	weather forecasts (6hr, 12hr, 18hr, 24hr); in situ		in situ	NMC, ECMWF						
807	weather radar; in situ		in situ	WMO, NWS-RFO, NWS-RPC, Europe?	1 hr	1 km :: R		BL		
237	well logs; in situ		in situ				~5 m ::	BL		
392	wet snow area; AVIRIS; in situ (aircraft)	AVIRIS	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	km <sup>2</sup>	10% :: 10%
391	wet snow area; SAR; in situ (aircraft)	SAR	in situ (aircraft)		1 wk - 1 mo	50 m :: Land/L		BL	km <sup>2</sup>	10% :: 10%
393	wet snow area; SIR-C; Shuttle	SIR-C	Shuttle		1 wk - 1 mo	50 m :: Land/L		BL	km <sup>2</sup>	10% :: 10%
620	wetlands extent; operational satellites		operational satellites					AL, PL		5% ::
806	wind; in situ		in situ	WMO, NWS-RFO, NWS-RPC, Europe?	1 hr	1 km :: R		BL		
159	wind analysis			NMC, ECMWF						
52	wind climatology			NOAA/WPL				BL		
536	wind components (u,v); UARS		UARS							
756	wind data; in situ (aircraft)		in situ (aircraft)					BL		
292	wind data; operational satellites		operational satellites	NMC				BL, AL, PL		
696	wind profile; in situ		in situ	NMC, ECMWF	4/day	1.25 deg :: G.R(10 deg)		AL, PL		
53	wind speed; in situ (buoy)		in situ (buoy)	NOAA DBC				BL		
251	wind stress data; in situ		in situ	NMC7				BL		
664	wind vector profiles; Earth Probe		Earth Probe					AL, PL		10% ::
663	wind vector profiles; in situ (weather station)		in situ (weather station)					AL, PL		10% ::

# Appendix S: Non-EOS Input Requirements Listed by Parameter

Prod #	Product Name	Instrument	Platform / Experiment	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Time frame	Units	Accuracy Abs :: Rel
497	wind vectors (GCM); model		model	GISS				BL, AL		
1	wind velocity; NSCAT; ADEOS	NSCAT	ADEOS	JPL				BL		
700	wind velocity; NSCAT; ADEOS	NSCAT	ADEOS	JPL	2 day	50 km ::		BL		
8	wind velocity; SCATT; ERS-1	SCATT	ERS-1	ESA				BL		
238	wind velocity; scatterometer; ESA-1	scatterometer	ESA-1	ESA				BL		
382	wind velocity; in situ		in situ	NMC	4/day[d,n]	1.25 dg :: G	1 km :: Atmos	AL	m/s	5 m/s :: 2 m/s
591	wind velocity; in situ (rawinsonde)		in situ (rawinsonde)							
584	wind velocity; HRDI; UARS	HRDI	UARS							
413	wind velocity profile; Lidar; in situ	Lidar	in situ		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	m/sec; dg	5 m/sec; 10dg :: 5 m/sec; 5 dg
412	wind velocity profile; in situ (balloon)		in situ (balloon)		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	m/sec; dg	5 m/sec; 10dg :: 5 m/sec; 5 dg
411	wind velocity profile; in situ (rocketsonde)		in situ (rocketsonde)		12 hr	15 x 4 dg :: G	2 km :: Mid-Atmos	BL, AL	m/sec; dg	5 m/sec; 10dg :: 5 m/sec; 5 dg

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# **Current and Future Data Holdings of DAACs by Data Center**

Appendix T

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**





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# Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
1	Raw Image Data	1	Landsat	MSS, TM	U. of Alaska	TBD	Yes	NASA, EDC, U. of Alaska			Film			1972-On
2	Raw Image Data	1B	NOAA	AVHRR	U. of Alaska	TBD	Yes	U. of Alaska			Film			1974-On
3	High Altitude Aerial Photography	1	Aircraft	Camera	U. of Alaska	TBD		ASF						
4	Signal Data	0	ERS-1	SAR	ASF	ASF		ASF	33,460.00					7/91 start
5	Signal Data	0	JERS-1	SAR	ASF	ASF		ASF	4,491.20					2/92 start
6	Full-Resolution Data	1B	ERS-1	SAR	ASF	ASF		ASF	9,314.00					7/91 start
7	Low-Resolution Data	1B	ERS-1	SAR	ASF	ASF	No	ASF	160.00					7/91 start
8	Full-Resolution Data	1B	JERS-1	SAR	ASF	ASF		ASF	3,198.70					2/92 start
9	Low-Resolution Data	1B	JERS-1	SAR	ASF	ASF	No	ASF	54.90					2/92 start
10	Geo-Coded Full Resolution	3	ERS-1, JERS-1	SAR	ASF	ASF		ASF	159.70					7/91 start
11	Geo-Coded Low Resolution	3	ERS-1, JERS-1	SAR	ASF	ASF		ASF	65.50					7/91 start
12	Ice Motion Vector	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF	0.37					7/91 start
13	Ice Type Classification	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF	52.40					7/91 start
14	Ice Type Fraction	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF	1.24					7/91 start
15	Wave Product	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF	0.03					7/91 start
16	MSS Digital Data (on WBVT)	0	Landsat 1-3	MSS	EDC	EDC	Yes	GSFC	9,500.00	9,500.00				1972-78
17	MSS Digital Data (on CCT-X)	1B	Landsat 1-3	MSS	EDC	EDC	Yes	GSFC	1,305.00	1,305.00				1972-1978
18	MSS Digital Data (on HDT)	1B	Landsat 3-5	MSS	EDC	EDC	Yes	GSFC	11,400.00	12,460.00				1979-On
19	TM Digital Data	1B	Landsat 4-5	TM	EDC	EDC	Yes		40,500.00	47,850.00				7/82-On
20	Federally Owned Landsat Data	1B	Landsat	MSS, TM	EDC	EDC	Yes	GSFC	216.00	216.00				1972-1985
21	1-km HRPT and LAC Data	1B	NOAA 6-11	AVHRR	EDC	EDC	Yes	NOAA	1,540.00	4,480.00				10/78 -On
22	NDVI (U.S. Biweekly Composite)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		7.00	16.00				1988 -On
23	NDVI (N. America Biweekly)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		<1	24.00				1990 -On
24	NDVI (Eurasian 10-day Composite)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		9.00	17.00				1986 -On
25	NDVI (African Biweekly)	3	NOAA	AVHRR	EDC	EDC	Yes		13.00	13.00				1987-89
26	Digital Images	1	SPOT	HRV		EDC								
27	Digital Optical and IR Data	1	JERS-1	OPS		EDC		Japan						
28	SIR-B/C Data	1B	Shuttle	SAR		EDC				TBD				TBD
29	Airborne USGS SAR	1A	Aircraft	SAR	EDC	EDC	Yes		53.00	65.00				8/80-On
30	NASA Air SAR	1A	Aircraft	SAR	JPL	EDC		JPL						
31	Airborne NASA TIMS Data	1B	Aircraft	TIMS	EDC	EDC	Yes		9.80	50.00				1987-On
32	Airborne NASA NS-001 Data	1B	Aircraft	NS001	EDC	EDC	Yes		32.00	90.00				1987 -On
33	Airborne NASA TMS Data	1B	Aircraft	TMS	EDC	EDC	Yes		24.00	24.00				1980s
34	Airborne NASA M2S Data	1B	Aircraft	M2S	EDC	EDC	Yes		4.00	4.00				1980s
35	Airborne NASA OCI Data	1B	Aircraft	OCI	EDC	EDC	Yes		1.00	1.00				1980s
36	Airborne NASA AVIRIS Data	1B	Aircraft	AVIRIS	EDC	EDC				300.00				1989 -On
37	USGS DEM	3	In-situ	N/A	EDC	EDC			1.00	1.00				
38	USGS DLG	3	In-situ	N/A	EDC	EDC	Yes		<1	<1				
39	Re. World Bank II	3	In-situ	N/A	EDC	EDC	Yes		<1	<1				
40	DMA DTED	3	In-situ	N/A	EDC	EDC				16.00				
41	DMA Digital Chart of the World	3	In-situ	N/A	EDC	EDC				26.00				
42	Derived DEMs	3	In-situ	N/A	EDC	EDC	Yes		<1	TBD				
43	Earth Science Data (NURE)	3	In-situ	N/A	EDC	EDC	Yes		125.00	125.00				1974-1980
44	Film Products	1	Landsat	MSS, TM	EDC	EDC		EDC						1972-on
45	NASA Space Photography	0	Spacecraft	Film Camera	EDC	EDC	Yes	NASA						1960 -On
46	USGS Photography	0	Aircraft	Film Camera	EDC	EDC	Yes							1950 -On
47	Other Photography	0	Aircraft	Film Camera	EDC	EDC	Yes							1939 -On
48	VHRR IR Digital Image Data, Tape		ATS 6	VHRR	NSSDC	EDC			47.04	47.04	MT	796		06/17/74-08/20/74
49	EHT - VISSR Digital Data Tapes	1	GOES 1	VISSR	NSSDC	EDC	Yes	NOAA	5.06	5.06	MT	46	Tape	04/16/76-05/29/77
50	VISSR IR/VIS AOIPS Image Tapes	1	GOES 1	VISSR	NSSDC	EDC	Yes		59.73	59.73	MT	543	Tape	07/19/75-06/16/78
51	IDAMS Visible + IR Image Data, TP	2	GOES 1	VISSR	NSSDC	EDC			0.44	0.44	MT	4	Tape	01/26/76-02/02/76
52	AOIPS IR + Visible Image Data	1	GOES 2	VISSR	NSSDC	EDC	Yes	NOAA	38.61	38.61	MT	351	AOIPS	12/07/77-03/05/78
53	AOIPS IR + Visible Image Data	1	GOES 3	VISSR	NSSDC	EDC	Yes	NOAA	6.82	6.82	MT	62	AOIPS	06/16/78-05/02/79

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
1	Radiances (Images)		80m		Alaska	Sfc	14304 Frames on photographic media	M	A-01
2	Radiances (Images)		1.1 km			Sfc	19500 Frames on 10" film transparencies	H	A-02
3	Radiances (Images)						53000 Frames on 9" film transparencies		A-03
4	Counts		10m		ASF Station Mask			H	A-04
5	Backscatter		10 m		ASF Station Mask			H	A-05
6	Backscatter		30 m (12.5 m spacing)		ASF Station Mask (100 x 100 km area)		145770 Frames in 1994	H	A-06
7	Backscatter		100 m		ASF Station Mask		8 by 8 ave. of full res. prod.	H	A-07
8	Backscatter		30 m (12.5 m spacing)		ASF Station Mask (100 x 100 km area)		51100 Frames	H	A-08
9	Backscatter		100 m		ASF Station Mask		8 by 8 ave. of full res. prod.	M	A-09
10	Backscatter		30 m				TBD Frames. Full res. prod. produced only on request	M	A-10
11	Backscatter		100 m				31925 Frames. Low res. prod. produced only on request	M	A-11
12	Ice Motion Vector		5 km x 5 km		Polar Ocean (100 x 100 km area)		12770 Frames	H	A-12
13	Ice Type Classification		100 m		Polar Ocean (100 x 100 km area)		25540 Frames	H	A-13
14	Ice Type Fraction		5 km x 5 km		Polar Ocean (100 x 100 km area)		1277 Frames	H	A-14
15	Wave Direction, Wave Length		6 km		Polar Ocean		1277 Frames	H	A-15
16	Radiances	1/18 days	79 m		Global	Sfc	Only Photo Products Available( Digital Data not Accessible)	M	E-01
17	Radiances	1/18 days	79 m		Global	Sfc	Digital and Photo Products	H	E-02
18	Radiances	1/18 days	79 m		Global	Sfc	Digital and Photo Products (Distribution Restrictions Apply)	H	E-03
19	Radiances		30 or 60 m				Subj to Commercial Restrctns	H	E-04
20	Radiances		30 to 90 m				Prior to 9/17/85	H	E-05
21	Radiances		1 km		Local		May be Pathfinder Data	H	E-06
22	Vegetation Index	1/2wk	9 km		U.S.	Sfc		H	E-07
23	Vegetation Index	1/2wk	9 km		N. America	Sfc		H	E-08
24	Vegetation Index	1/10 day	9 km		Eurasia	Sfc	NOT AVAILABLE FOR 1989	H	E-09
25	Vegetation Index	1/2wk	9 km		Africa	Sfc		H	E-10
26	Radiances		10 km				Selected SPOT scenes if	H	E-11
27	Radiances						Selected JERS OPS scenes	H	E-12
28								M	E-13
29							Photo Products( 3,261 Strips and 596 Mosaics)	L	E-14
30								L	E-15
31								H	E-16
32								H	E-17
33								L	E-18
34								L	E-19
35								L	E-20
36								H	E-21
37	Digital Elevations Model Data		1 x 2 deg		U.S.		1:250,000 (1 by 2 Deg. US)	H	E-22
38					U.S.		1:2,000,000 U.S. Coverage	M	E-23
39			Multiple		Global			M	E-24
40			1x1 deg		Sub Global			H	E-25
41			Multiple		Global			H	E-26
42	Surface Elevations		Multiple		Global			H	E-27
43			Multiple		U.S.			L	E-28
44			Multiple		Global			M	E-29
45			Multiple		Sub-global		142,000 Current Frames	L	E-30
46	Photos		Multiple		U.S.		3,581,000 Current Frames	L	E-31
47	Photos		Multiple		U.S.		3,193,000 Current Frames	L	E-32
48	Calib. Radiances						74-039A-08C		E-33
49	Vis and IR radiances	2/day	0.9 - 8 km				75-100A-01A		E-34
50	Radiances						75-100A-01D		E-35
51	Radiances						75-100A-01E		E-36
52	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		77-048A-01A		E-37
53	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		78-062A-01C		E-38

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
54	Image Data on Mag Tape	1	HCMM	HCMR	NSSDC	EDC			12.16	12.16	MT	104	Tape	05/11/78-12/06/79
55	Day/Night Registered Data	1	HCMM	HCMR	NSSDC	EDC	Yes	GSFC	12.40	12.40	MT	102	Tape	07/16/78-06/17/79
56	SFC Composition Mapping Rad Tapes	1	Nimbus 5	SCMR	NSSDC	EDC			1.80	1.80	MT	45	Tape	12/11/72-12/30/72
57	EHT - VISSR Digital Data Tapes	1	SMS1	VISSR	NSSDC	EDC	Yes	NOAA	12.12	12.12	MT	374		05/17/74-10/20/75
58	AOIPS IR + Visible Image Data	1	SMS1	VISSR	NSSDC	EDC	Yes	NOAA	218.88	218.88	MT	5769	AOIPS	05/17/74-09/26/75
59	IDAMS Visible + IR Image Data	2	SMS1	VISSR	NSSDC	EDC			31.44	31.44	MT	788	Tape	05/17/74-09/06/74
60	EHT - VISSR Digital Data Tapes	1	SMS2	VISSR	NSSDC	EDC	Yes	NOAA	13.36	13.36	MT	333	Tape	02/17/75-08/28/75
61	AOIPS IR + Visible Image Data	1	SMS2	VISSR	NSSDC	EDC	Yes	NOAA	170.85	170.85	MT	4209	AOIPS	08/12/74-09/12/79
62	IDAMS Visible + IR Image Data	2	SMS2	VISSR	NSSDC	EDC			71.20	71.20	MT	1220	Tape	02/06/75-10/27/75
63	Image Data & Annotation on Tape		Shuttle	SIR-B	NSSDC	EDC			6.46	6.46	MT	162		10/07/84 - 10/10/84
64	Data Takes Listing		Shuttle	SIR-B	NSSDC	EDC			0.04	0.04	MT	1		10/06/84 - 10/12/84
65	GAC - NOAA 1B Input data	1B	NOAA 7,9,11	AVHRR	NOAA	GSFC		NOAA	690.00	2,990.00				1981-On
66	Atmospheric Products - Day and Night Composites - 50 km	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		570.00				1981-On
67	Atmospheric Products - 7 day Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		81.00				1981-On
68	Atmospheric Products - Mon. Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		19.00				1981-On
69	5 Channel Clear Sky Radiance - 9 km	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		425.00				1981-On
70	NDVI - 10 Day Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		57.00				1981-On
71	NDVI - Monthly Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		19.00				1981-On
72	Sea Surface Temperature - Day and Night Composites - 9 km	3	NOAA 7,9,11	AVHRR		JPL		GSFC		1,140.00				1981-On
73	SST - 10 Day Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		114.00				1981-On
74	SST - Monthly Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		38.00				1981-On
75	Bouy Match-up Data	1, 3	NOAA 7,9,11	AVHRR		JPL		GSFC						1981-On
76	TOVS Radiances (Pathfinder)	1B	NOAA	TOVS		GSFC	No	NOAA / NCAR		445.00				11/78 - on
77	Atmosphere, Surface, Cloud Products	2	NOAA	TOVS		GSFC	No	GSFC		1,041.00				11/78 - on
78	Gridded Products	3	NOAA	TOVS		GSFC	No	GSFC		176.00				11/78 - on
79	Analyzed Fields	4	NOAA	TOVS		GSFC	No	GSFC		74.00				11/78 - on
80	High Resolution Raw Data	1	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	675.00	675.00				11/78 - 6/86
81	Resampled Raw Data	1A	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	38.00	38.00				11/78 - 6/86
82	Geophysical Parameters	2	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	37.00	37.00				11/78 - 6/86
83	Gridded Composites	3	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	7.00	7.00				11/78 - 6/86
84	Recorded GAC	1	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		112.00				1993-On
85	Recorded LAC	1	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		57.00				1993-On
86	HRPT	1	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		85.00				1993-On
87	GAC Derived Geophysical Parameters	2	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		168.00				1993-On
88	GAC Derived Compressed Products	3	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		142.00				1993-On
89	GAC Derived Mosaic Products	3	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		15.00				1993-On
90	Ancillary Data	3,4	Seastar	SeaWiFS		GSFC		SeaWiFS Proj.		2.00				1993-On

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
54	Radiances		500 - 600m		Regional		78-041A-01B		E-39
55	IR Images	2/day	300 km				78-041A-01D		E-40
56	Calib. Radiance, Brightness Temp.		660 x 660 m		80 N - 80 S	Sfc	72-097A-05A		E-41
57	Vis and IR radiances	2/day	0.9 - 8 km				74-033A-01A		E-42
58	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		74-033A-01D		E-43
59	Radiances						74-033A-01E		E-44
60	Vis and IR radiances	2/day	0.9 - 8 km				75-011A-04A		E-45
61	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		75-011A-04D		E-46
62	Radiances						75-011A-04E		E-47
63							84-108A-01B		E-48
64							84-108A-01C		E-49
65	Calibrated 5 Channel Radiances	2/day	4 km		Global		(Pathfinder)	H	G-001
66	Cloud and Radiance Fields	2/day (d,n)	50km		Global		(Pathfinder)	H	G-002
67	Cloud and Radiance Fields	1/wk	50km		Global		(Pathfinder)	H	G-003
68	Cloud and Radiance Fields	1/mon	50km		Global		(Pathfinder)	H	G-004
69	Average Radiances	1/day	9 km		Global		(Pathfinder)	H	G-005
70	Vegetation Index	1 /10 day	9 km		Global/ Land	Sfc	(Pathfinder)	H	G-006
71	Vegetation Index	1 /mon	9 km		Global/ Land	Sfc	(Pathfinder)	H	G-007
72	SST	2/day (d,n)	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-008
73	SST	1 /10 day	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-009
74	SST	1 /mon	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-010
75	Derived SST, Bouy SST	2/day	Buoy locations		N/A	Sfc	(Pathfinder)Buoy Observations colocated with SST	H	G-011
76	Radiances	14/day	18-50 km		Global	1000 - 1 mb	Pathfinder	L	G-012
77	Temperature & Humidity Profiles, Cloud Height & Amount	14/day	60 km		Global	1000 - 1 mb	Pathfinder	M	G-013
78	Temperature & Humidity Profiles, Cloud Height & Amount	2/day	1 x 1 deg		Global	1000 - 10 mb	Pathfinder	H	G-014
79	Temperature & Humidity Profiles, Cloud Height & Amount	2/day	4 x 5 deg		Global	1000 - 10 mb	Pathfinder	M	G-015
80	Radiances	1/day	1 km		Ocean (10% per day)	Sfc	Full resolution data on optical disk	H	G-016
81	Radiances	1/day	4 km		Ocean (10% per day)	Sfc	Every 4th pixel and scan line	H	G-017
82	Pigment Conc., Diffuse Attenu. Coef., Water Leaving radiances, Aerosol Radiances	1/day	4 km		Ocean (10% per day)	Sfc		H	G-018
83	Pigment Conc., Diffuse Attenu. Coef., Water Leaving radiances, Aerosol Radiances	1/day, 1/wk, 1/mon	20 km		Ocean (30% per mon)	Sfc		H	G-019
84	Radiances	2/day	1.1 km every 4 km		Global oceans		307 MB/day	M	G-020
85	Radiances	2/day	1 km		Local		155 MB/day	M	G-021
86	Radiances	2/day	1 km		Selected local areas		232 MB/day	M	G-022
87	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	2/day	1.1 km every 4 km		Global oceans		CZCS type products (460 MB/day)	M	G-023
88	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	1/day, 1/8 days, 1/mon	10-20 km		Global		Daily dataset 256 MB, all others 760 MB.	M	G-024
89	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	1/day, 1/8 days, 1/mon	2048 x 4096 pixels		Global		2048 x 4096 Image; each image 32 Mb	M	G-025
90	Surface Pressure, Ozone, water vapor, surface wind speed, aerosol	2/day	1 deg- 2.5 deg		Global		NMC Data, TOMS Ozone Data	M	G-026

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
91	Instrument Science Data	0,1	UARS	SOLSTICE		GSFC		UARS Proj.		12.35				8/91-on
92	Solar Spectral Irradiance	2	UARS	SOLSTICE		GSFC		UARS Proj.		22.28				8/91-on
93	Daily Avg. Solar Irradiance	3	UARS	SOLSTICE		GSFC		UARS Proj.		1.11				8/91-on
94	Instrument Science Data	0,1	UARS	SUSIM		GSFC		UARS Proj.		30.20				8/91-on
95	Solar Spectral Irradiance	2	UARS	SUSIM		GSFC		UARS Proj.		3.23				8/91-on
96	Daily Avg. Solar Irradiance	3	UARS	SUSIM		GSFC		UARS Proj.		1.11				8/91-on
97	Instrument Science Data	0,1	UARS	PEM		GSFC		UARS Proj.		46.65				8/91-on
98	In-situ Geophysical Parameters	2	UARS	PEM		GSFC		UARS Proj.		17.32				8/91-on
99	Average Geophysical Parameters	3	UARS	PEM		GSFC		UARS Proj.		39.92				8/91-on
100	Instrument Science Data	0,1	UARS	CLAES		GSFC		UARS Proj.		69.55				8/91-on
101	Temperature and Trace Gas Profiles	2	UARS	CLAES		GSFC		UARS Proj.		0.20				8/91-on
102	Temperature and Trace Gas Profiles	3	UARS	CLAES		GSFC		UARS Proj.		42.63				8/91-on
103	Instrument Science Data	0,1	UARS	ISAMS		GSFC		UARS Proj.		36.40				8/91-on
104	Temperature and composition Profiles	2	UARS	ISAMS		GSFC		UARS Proj.		22.61				8/91-on
105	Temperature and composition Profiles	3	UARS	ISAMS		GSFC		UARS Proj.		11.76				8/91-on
106	Instrument Science Data	0,1	UARS	MLS		GSFC		UARS Proj.		51.94				8/91-on
107	Pressure and Trace Gas Profiles	2	UARS	MLS		GSFC		UARS Proj.		0.45				8/91-on
108	Pressure and Trace Gas Profiles	3	UARS	MLS		GSFC		UARS Proj.		18.04				8/91-on
109	Instrument Science Data	0,1	UARS	HALOE		GSFC		UARS Proj.		93.10				
110	Pressure and Trace Gas Profiles	2	UARS	HALOE		GSFC		UARS Proj.		0.01				8/91-on
111	Pressure and Trace Gas Profiles	3	UARS	HALOE		GSFC		UARS Proj.		0.13				8/91-on
112	Instrument Science Data	0,1	UARS	HRDI		GSFC		UARS Proj.		178.10				
113	Horizontal Vector Wind Fields	2	UARS	HRDI		GSFC		UARS Proj.		1.21				8/91-on
114	Horizontal Vector Wind Fields	3	UARS	HRDI		GSFC		UARS Proj.		35.51				8/91-on
115	Instrument Science Data	0,1	UARS	WINDII		GSFC		UARS Proj.		163.20				8/91-on
116	Temperature and Wind Profiles	2	UARS	WINDII		GSFC		UARS Proj.		5.56				8/91-on
117	Temperature and Wind Profiles	3	UARS	WINDII		GSFC		UARS Proj.		5.51				8/91-on
118	Engineering Data	0	UARS			GSFC		UARS Proj.		108.47				8/91-on
119	Global Positioning System	1	In-situ	GPS	CDDIS	GSFC	Yes	Crustal Dynamics	6.88	136.75				1986-On
120	Baseline Station positions, Earth Orientation	2	In-situ	GPS	CDDIS	GSFC		Crustal Dynamics	0.00	5.53				1991-On
121	Lunar Laser Ranging	1	In-situ	LLR	CDDIS	GSFC	Yes	Crustal Dynamics	5.50	10.00				1969-On
122	Satellite Laser Ranging	1	In-situ	SLR	CDDIS	GSFC	Yes	Crustal Dynamics	132.00	223.25				1975-On
123	Baseline Station positions, Earth Orientation	2	In-situ	SLR	CDDIS	GSFC	Yes	Crustal Dynamics	5.52	11.03				1976-On
124	Very Long Baseline Interferometry	1	In-situ	VLBI	CDDIS	GSFC	Yes	Crustal Dynamics	22.00	55.00				1979-On
125	Baseline Station positions, Earth Orientation	2	In-situ	VLBI	CDDIS	GSFC	Yes	Crustal Dynamics	4.45	11.03				1979-On

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
91	Raw Counts, Radiances				Full Sun		Instrument and Obs. parameters (Level 0 and 1 data)	L	G-027
92	Solar and Stellar Spectral Irradiance				Full Sun		Solar and Stellar Spectral Irradiance 115 - 430 nm	M	G-028
93	Daily Average Solar and Stellar Irrad.	1/day			Full Sun			M	G-029
94	Raw Counts, Radiances				Full Sun		Instrument and Obs. parameters (Level 0 and 1 data)	L	G-030
95	Solar Spectral Irradiance (Absolute Flux)				Full Sun			M	G-031
96	Solar Spectral Irradiance (Absolute Flux)	1/day			Full Sun		Daily Composite mapped to standard latitude grid	M	G-032
97	Raw Counts, Radiances				Satellite Orbit	N/A	Instrument and Obs. parameters (Level 0 and 1 data)	L	G-033
98	Electron and Proton Observations				Satellite Orbit	N/A		M	G-034
99	Electron and Proton Spectra, Directional X-ray Spectra, Vector Magnetic Fields	1/day			Satellite Orbit	TBD		M	G-035
100	Raw Counts, Radiances		8.4 km x 495 km	2.8km	Global	10-60 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-036
101	Profiles of Temperature and Trace Gases		8.4 km x 495 km	2.8 km	Global	10-60 km	(N2O, NO, NO2, HNO3, CFC13, CF2C13, HCl, ClO, ClONO2, O3, H2O, CH4, CO2)	H	G-037
102	Profiles of Temperature and Trace Gases	1/day			Global	10-60 km	Daily Composite mapped to standard time and latitude grids and represented as Fourier series	M	G-038
103	Raw Counts, Radiances		18 km x 121 km	2.6 km	80N - 80S	10-80 km	Instrument and Obs. parameters (Level 0 and 1 data)	L	G-039
104	Temperature and composition Profiles		18 km x 121 km	2.6 km	80N - 80S	10-80 km	CO, H2O, CH4, HNO3, N2O5, NO, NO2, N2O, aerosols	H	G-040
105	Temperature and composition Profiles	1/day			80N - 80S	10-80 km	Daily Composite mapped to standard time grid	M	G-041
106	Raw Counts, Radiances		10-30 km x 495 km	3-10 km	80N - 80S	15-85 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-042
107	Pressure and Trace Gas Profiles		10-30 km x 495 km	3-10 km	80N - 80S	15-85 km	H2O, O3, ClO, H2O2, O3	H	G-043
108	Pressure and Trace Gas Profiles	1/day	10-30 km	3-10 km	80N - 80S	15-85 km	Daily Composite mapped to standard time grid	M	G-044
109	Raw Counts, Radiances		6.2 km	2 km	75N - 75S	10-65 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-045
110	Pressure and Trace Gas Profiles		6.2 km	2 km	75N - 75S	10-65 km	O3, HCl, CH4, H2O, NO, NO2	H	G-046
111	Pressure and Trace Gas Profiles	1/day	TBD	TBD	75N - 75S	10-65 km	Daily Composite mapped to standard time grid	M	G-047
112	Raw Counts, Radiances		128 km x 55 km	4 km	80N - 80S	10 - 110 km	Instrument and Obs. parameters (Level 0 and 1 data)	M	G-048
113	Horizontal Vector Wind Fields		128 km x 55 km	4 km	80N - 80S	10 - 110 km	Upper troposphere and thermosphere	M	G-049
114	Horizontal Vector Wind Fields	1/day	TBD	TBD	80N - 80S	10 - 110 km	Daily Composite mapped to standard time grid	M	G-050
115	Raw Counts, Radiances	1/day	20 km	4 km	75N - 75S	85-105 km	Instrument and Obs. parameters (Level 0 and 1 data)	M	G-051
116	Temperature and Wind Profiles		20 km	4 km	75N - 75S	85-105 km		M	G-052
117	Composite Temperature and Wind Profiles( Time Grid)	1/day	TBD	TBD	75N - 75S	85-105 km	Daily Composite mapped to standard time and latitude grid	M	G-053
118	Engineering Values						Fourier series representation of Level-3 data	L	G-054
119	Position coordinates							L	G-055
120	Station Coordinates		cm					L	G-056
121								L	G-057
122								L	G-058
123	Station Coordinates		cm					L	G-059
124								L	G-060
125	Station Coordinates		cm					L	G-061

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
126	Nimbus-7 TOMS Gridded Ozone Data	3	Nimbus 7	TOMS	NCDS	GSFC	Yes	GSFC	0.55	1.50	MT,CD	14	CDF	11/78-6/90
127	Nimbus-7 SBUV CPOZ	3	Nimbus 7	SBUV	NCDS	GSFC	Yes	GSFC	1.40	1.40	MT	13	CDF	10/31/78-03/01/88
128	Nimbus-7 SBUV Ozone	3	Nimbus 7	SBUV	NCDS	GSFC	Yes	GSFC	4.50	4.50	MT	41	CDF	11/1/78-3/1/88
129	Raw Instrument Data (RUF)	1	METEO 3	TOMS 2		GSFC	No	GSFC		17.00				8/91 - on
130	Full Resolution Data (HDTOMS)	2	METEO 3	TOMS 2		GSFC	No	GSFC		12.00				8/91 - on
131	Gridded Data	3	METEO 3	TOMS 2		GSFC	No	GSFC		0.20				8/91 - on
132	ATMOS Data & Derived Products	0-3	Shuttle	ATMOS		GSFC	No	GSFC		88.20				Days / Year
133	Nimbus-4 BUUV CPOZ (Albedo, Ozone)	3	Nimbus 4	BUV	NCDS	GSFC	Yes	GSFC	0.21	0.21	MT	4	CDF	4/10/70-5/6/77
134	Aerosol, NO <sub>2</sub> , and O <sub>3</sub> Profiles (79/81)	3	AEM-2	SAGE I	NCDS	LaRC	Yes	LaRC	0.99		MT	9	CDF	02/21/79-11/18/81
135	Aerosol, NO <sub>2</sub> , H <sub>2</sub> O and O <sub>3</sub> Profiles (84/87)	3	ERBS	SAGE II	NCDS	LaRC	Yes	LaRC	1.10		MT	10	CDF	1984-Present
136	LIMS Map Archive Tapes (LAMAT)	3	Nimbus 7	LIMS	NCDS	GSFC	Yes	LaRC	0.15	0.20	MT	9	CDF	10/25/78-5/28/79
137	Nimbus-7 BANAT (Aerosols)	3	Nimbus 7	SAM II	NCDS	GSFC	Yes	LaRC	4.20	4.20	MT	140	CDF	11/78-Present
138	Nimbus-7 ERB MATRIX Tapes	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	1.90	1.90	MT	18	CDF	11/78-10/87
139	Nimbus-7 ERB Seasonal Tapes	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.02	0.02	MT			12/78-2/86
140	Solar Irradiance	1B	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.00	0.00	Disk		CDF	11/78-present
141	Nimbus-7 THIR CMATRIX Tapes (Cloud Data)	3	Nimbus 7	THIR	NCDS	GSFC	Yes	GSFC	0.99	0.99	MT	7	Tape	04/01/79-03/31/85
142	Radiation Budget ERBE-S4	3	ERBS	ERBE	NCDS	LaRC	Yes	LaRC	3.20	6.00				1984-On
143	Lyman-ALPHA Solar Irradiance	1B	SME	Spectrometer	NCDS	GSFC	Yes		0.00	0.00	Disk		CDF	1/81-12/87
144	Daily Mean Solar Flux	3	SMM	ACRIM	NCDS	GSFC	Yes	JPL	0.00	0.00	Disk		CDF	2/16/80-12/31/88
145	Heat Budget Data	3	NOAA 2-11	SR, AVHRR	NCDS	GSFC	Yes	NESDIS	8.30	8.30	MT	76	CDF	6/74-present
146	Temperature and Moisture Profiles	2	TIROS N	TOVS	NCDS	GSFC	No		0.00	4.00				1979-On
147	Spencer's MSU Mid-Trop Temp.	2,3	TIROS N	MSU	NCDS	GSFC			0.01	0.01				1979-1991
148	ISCCP TOVS Sounding Data Set	3	TIROS N	TOVS	NCDS	GSFC	Yes	GISS	0.90	2.00	MT	8	CDF	7/83-12/90
149	ISCCP C1 Cloud data (3 hr averages)	3	GOES	AVHRR	NCDS	GSFC	Yes	GISS	11.10	25.00	MT	101	CDF	7/83-11/86,10/87
150	ISCCP C2 Cloud data (hourly & monthly)	3	GOES	AVHRR	NCDS	GSFC	Yes	GISS	1.00	3.00	MT	4	CDF	7/83-11/86,Ongoing thru 1995
151	ISCCP Stage B3 Cloud data	2	GOES & NOAA	VAS & AVHRR	NCDS	GSFC	Yes	GISS	149.60	200.00	MT	935	Tape	7/83-12/90
152	ISCCP CX Radiances (WI & CA FIRE Areas)	1,2,3	GOES & NOAA	VAS & AVHRR	NCDS	GSFC	Yes	GISS	2.20	5.00	MT	20	Tape	9/30/86 -11/30/86; 6/1/87 - 7/31/87
153	GPCP Precipitation Estimates	3	GOES	VAS	NCDS	GSFC	Yes	NOAA	0.01	0.10	Disk		CDF	1/86-12/89
154	Prabhakara's Monthly Water Vapor	3	Nimbus 7	SMMR	NCDS	GSFC	Yes	GSFC	0.01	0.01	Disk		CDF	1/79-9/83
155	Ice Concentration	3	Nimbus 7	SMMR	NCDS	GSFC	Yes	GSFC	0.02	0.02	Disk		CDF	11/78-8/87
156	Multi-Channel Sea Surface Temperature (MCSST)	3	NOAA 7-11	AVHRR	NCDS	GSFC	Yes	NOAA	11.04	15.00				11/81-3/90
157	ISCCP Snow/Ice Data	3	NOAA	Multi	NCDS	GSFC	Yes	GISS	1.00	2.00	MT	3	Tape	7/83-12/88
158	LAC/GAC/HRPT Radiances for FIRE ETO	1B	NOAA 7-10	AVHRR	NCDS	GSFC	Yes	NESDIS	100.20	280.00	MT	911	Tape	4/86-11/89
159	TOVS Radiances for FIRE ETO	1B	NOAA 7-10	TOVS	NCDS	GSFC	Yes	NESDIS	15.00	30.00	MT	125	Tape	4/86-10/90
160	FIRE ETO VISSR Radiances	1B	GOES	VISSR	NCDS	GSFC	Yes	NOAA	50.00	200.00	MT	256	CDF	1986-Present
161	Hourly Surface Station Data	1B	Station		NCDS	GSFC		NCDC	0.05					1/78 - 12/87
162	NODC Ocean Data	3	Station		NCDS	GSFC		NODC						1900 - 1988



## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
126	Reflectivity, Ozone	1/day, 1/mon, 1/seas	1 x 1.25 deg @ low lat & 1 x 5 deg @ high lat		Global		300 Tapes	H	G-062
127	Reflectivity, Ozone	1/14 days	1x250 km	1km( >25 km) ; 15km(<25km)	Global	100-0.3 mb		M	G-063
128	Reflectivity, Ozone	1/14 days	200x200 km	8km ( > 25 km) ; 15 km(<25 km)	Global	100-0.3 mb	Daylight only	M	G-064
129	Raw Counts , Radiances	14/day	50 km		Global		Data Format Same as NIMBUS 7 TOMS	L	G-065
130	Reflectivity, Total Ozone	1/14 days	50 km		Global			H	G-066
131	Reflectivity, Total Ozone	1/14 days	1 x 1.25 deg @ low lat and 1 x 5 deg @ high lat		Global		Gridded Data	H	G-067
132	ATMOS Radiances, Products				Regional		Calibrated data from PI instrs.	M	G-068
133	Albedo, Ozone, Ozone profile	1/14days	200x200 km	8 km(>25 km); 15 km (<25 km)	Global	100 - 0.3 mb		M	G-069
134	Aerosols, Nitrogen Dioxide, Ozone	1/18 days	1 x 250 km	1 km <25 km; 5 km >25km	72N - 72S	Above Cloud Top	Only sunset data after 6/79	M	G-070
135	Aerosols, Ozone, Humidity, Nitrogen Dioxide	1/18 days	1 x 250 km	1 km <25 km; 5 km >25km	80N - 80S	Above Cloud Top		M	G-071
136	Height, Humidity, Nitric Acid, Nitrogen Dioxide, Ozone, Temperature	1/day		1.5 km	Global (84 N - 64 S)	100 - 0.05 mb		M	G-072
137	Aerosols	1/3 mon	1 x 250 km	1 km	72N to 72 S			M	G-073
138	Radiation Budget	1/day, 1/6days, 1/mon	500x500 km		Global			H	G-074
139		1/seas	500x500 km		Global			H	G-075
140	Solar Irradiance	1/day			Full Solar Disk			M	G-076
141	Total, low, mid, and high Cloud Amount, Clear Radiances, Spatial & Temporal variance, snow	1/day, 1/mon	500 x 500 km		Hemispheric, Zonal, Global	2- 7 km	78-098A-10F	M	G-077
142	Radiation Budget				Global			H	G-078
143	Solar Flux	daily			Full Solar Disk			L	G-079
144	Solar Flux	daily			Full Solar Disk		120 TAPES	M	G-080
145	Radiation Budget	1/day	2.5x2.5 deg		Global			H	G-081
146	Temperature and Moisture Profiles	2/day	4 x 5 deg		Global	1000-10 mb		M	G-082
147	Temperature					Mid-Troposphere		M	G-083
148	Clouds, Humidity, Ozone, Temperature		2.5x2.5 deg		Global			M	G-084
149	Clouds, Optical Depth, Ozone, Pressure, Reflectance,	1/3 hr	250x250 km		Global	Atmosphere		H	G-085
150	Clouds, Optical Depth, Ozone, Pressure, Reflectance, Temperature, Total Precipitation	hourly, monthly	250x250 km		Global	Atmosphere		M	G-086
151	Clouds, Radiance	1/12 hr	24 km		Global			M	G-087
152	Radiances				Wisconsin FIRE Network, California Coastal area			M	G-088
153	Precipitation	1/5 day	2.5x2.5 deg		40N - 40S			M	G-089
154	Water Vapor	1/mon	3 x 5 deg		Global Oceans (50 N - 50 S)		1991 Launch	M	G-090
155	Ice Concentration	1/mon	30x30 km		Polar	Sfc		H	G-091
156	SST	1 /wk (ave)	18 x 18 km	N/A	Global/Ocean	Sfc		H	G-092
157	Ice, Snow	1/day	1x1 deg		Global		To be distributed as is	H	G-093
158	Radiances	1/day	1 km - 4 km		30N - 50N and 140W - 60E; Regional			L	G-094
159	Radiances		109.3 km (MSU); 147 km (SSU); 17 km (HIRS)		Regional		111 Tapes in 1991	L	G-095
160	Radiances		0.9 km for Vis; 8 km for IR		Global			L	G-096
161		1/hr			Point		3 U.S. Stations (NCDC TD-3280)	M	G-097
162	Salinity, Temperature		10 deg		80S-80N; 70E-110W			M	G-098

# Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
163	TOGA/NODC Sea Level Height	1B	In-situ		NCDS	GSFC	Yes	NODC	0.06	0.10	MT	1	CDF	1/57-12/89
164	World Monthly Surface Station Data	3	In-situ		NCDS	GSFC	Yes	NOAA / NCAR	0.10	0.10	MT	1	CDF	1/1731-12/1989
165	GISS Global Surface Coverage	3	In-situ			GSFC		GISS						
166	River Discharge Rate	3	In-situ	Current Meter	NCDS	GSFC	Yes	UNESCO	0.01	0.01	Disk		CDF	1807-1972
167	NGDS Solar Activities Indices	1B	In-situ		NCDS	GSFC	Yes	NGDC	0.00	0.00	MT	1	CDF	12/68-8/82
168	Baseline Surface Radiation	2	In-situ		NCDS	GSFC	Yes		0.00	1.00				4/92
169	FIRE Kansas (April '91 thru '92)	1B	In-situ		NCDS	GSFC	No		0.00	50.00				10/91-11/91
170	FIRE Azores (Jan '92 thru Dec '92)	1B	In-situ		NCDS	GSFC	No		0.00	75.00				6/92
171	Mauna Loa Carbon Dioxide	3	In-situ		NCDS	GSFC	Yes		0.00	0.00	Disk		CDF	1/58-12/88
172	Wisconsin FIRE Cirrus Data	1B	In-situ		NCDS	GSFC	Yes		2.10	3.00	MT, Diskette	19, 4	CDF	10/01/86 - 11/02/86
173	FIRE Marine Stratocumulus Experiment	1B	In-situ		NCDS	GSFC	Yes		3.90	6.00	MT	36	CDF	6/30/87 - 07/19/87
174	Angell's Global Temperature Deviations	3	In-situ		NCDS	GSFC	Yes	NOAA	0.00	0.00	Disk			1/58-11/90
175	COADS Monthly Summary Trimmed Data	3	In-situ		NCDS	GSFC	Yes	NCAR	0.55	0.73	MT	5	CDF	1/46-12/89
176	CAC Sea Surface Temperatures	3	In-situ	Analyses	NCDS	GSFC	Yes	NOAA (CAC)	0.04	1.03	MT	2	CDF	1/70-present
177	Climate Research Unit Temp. Dev.	3	In-situ	Analyses	NCDS	GSFC	Yes	Jones	0.02	0.02				1851-1990
178	GALE Data	1,2,3	In-situ	Multi	NCDS	GSFC	Yes	Multiple	0.01	0.01	CD	1	CDF	1/86-4/86
179	Soviet Cloud Climatology	3	In-situ	Analyses	NCDS	GSFC	No	TBD	0.11	0.11	MT	1	CDF	
180	CDIAC's Trends Data	2	In-situ	Gas Monitors	NCDS	GSFC		CDIAC	0.00	0.01				1945-1991
181	Stratospheric Temperatures	3	Balloon	Radiosonde	NCDS	GSFC		BERLIN	0.01	0.01				Climatology
182	Monthly Radiosonde	2	Balloon	Radiosonde	NCDS	GSFC	Yes	NOAA	16.00	16.00				
183	ERICA	2,3	Multi	Multi	NCDS	GSFC	Yes	Multiple	0.60	0.60				12/1988-02/1989
184	2800 MHz Solar Flux	2	Observatory	Telescope	NCDS	GSFC	Yes	DRAO	0.00	0.00				01/81-12/87
185	U.S. Hourly & 15 min Precipitation	2	In-situ	Rain Gauge	NCDS	GSFC	Yes	NCDC	1.80	2.10				1850-On
186	U.S. Climate Summaries	2	In-situ	Multi	NCDS	GSFC	Yes	NOAA	2.40	2.80				1850-On
187	East Anglia (Jones) Temperature Deviations	3	In-situ		NCDS	GSFC	Yes	Jones	0.02	0.02	Disk		CDF	1/1851-12/1990
188	Permanent Ship Observations	2	In-situ	Multi	NCDS	GSFC	Yes	TBD	0.06	0.30				1845-1987
189	Levinus Climatologies	4	In-situ	Analyses	NCDS	GSFC	Yes	Levinus, NOAA	0.55	0.55	Disk/MT	5	CDF	1/1900-12/1978
190	NCAR Trenberth Wind Stress Climatologies	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.08	0.08	MT	1	CDF	1898-1986
191	NMC Grid Point Data Set	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.08	0.08	CD, Disk		CDF	1/46-12/85
192	NMC Wind Data	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.44	0.44	MT	4	CDF	7/76-6/86
193	Pacific Ocean Pseudo Wind Stress	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.02	0.02	MT	1	CDF	1/61-11/88
194	Lean-Foukal Monthly Mean Solar Flux	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.00	0.00	Disk		CDF	1/54-12/84
195	ECMWF Analysis Fields (Surface & 14 levels) 2.5°	4	Model	Analyses	NCDS	GSFC	Yes	ECMWF	3.00	6.00				1980-On
196	Australian Meteorological Data	4	Model	Analyses	NCDS	GSFC	No	Australian		5.00				
197	NMC History Data	4	Model	Analyses	NCDS	GSFC	No	NMC	455.68	800.00				7/89
198	Hsiung Mean Surface Energy	4	Model	Analyses	NCDS	GSFC	Yes	Hsiung	0.00	0.00	Diskette		CDF	1/46 - 12/79
199	Max Plank Institute Heat Fluxes	4	Model	Analyses	NCDS	GSFC	Yes	MPI	0.02	0.02	MT	2	CDF	1/50-12/79
200	FGGB II-B Restructured Data	4	Multi	Analyses	NCDS	GSFC	Yes	NOAA	2.63	2.63	MT			12/1978-11/1979
201	FGGB III-B Data - Reanalysis from ECMWF	4	Model	Analyses	NCDS	GSFC	Yes	NOAA	3.00	3.00	MT	21	CDF	1/79-3/79,5/79-7/79
202	FNOC Analysis Fields	4	Model	Analyses	NCDS	GSFC	Yes	FNOC	5.60	7.10	MT	52	CDF	1/73-present
203	Hellerman Wind Stress	4	Model	Analyses	NCDS	GSFC	Yes	Hellerman	0.00	0.00	Disk		CDF	1870-1976
204	Indian Ocean Pseudo Wind Stress (2 deg Grid)	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.01	0.01	MT	1	CDF	1/77-5/86
205	Warren's Cloud Climatology	4	Model		NCDS	GSFC	Yes	NCAR	0.00	0.01				Climatology
206	FIFE gridded data	0,1,2	Multi	Multi	PLDS/GSFC	EDC	Yes	FIFE		21.66				5/1987 - 9/1989
207	TIMS	0,1	Aircraft	TIMS	PLDS/GSFC	EDC		TBD	2.81	2.81	Tapes	125		1/87-8/89

# Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
163	Sea Level Height	1/hr, 1/day, 1/mon			Pacific	Sfc		M	G-099
164	Temperature, Precipitation, Pressure, Humidity (after 1961)	1/mon	In situ		Global	Sfc		H	G-100
165			1 deg		Global			M	G-101
166	River Flowrate	1/mon, 1/yr			Africa, S. America, Asia, Europe, Oceania, N. America (w/o U.S.)	Sfc		M	G-102
167	Plage, Sunspot	2/ Day (clear day)	1x1 deg (solar lat/long)		full Solar Disk			M	G-103
168								M	G-104
169					Local			L	G-105
170					Local			M	G-106
171	Carbon Dioxide		point		19.28 N, 155.38 W			H	G-107
172	Clouds, Humidity, Radiation Budget, Stability, Temperature, Wind	variable	30 - 70 km		Wisconsin FIRE Network			L	G-108
173	Clouds, Humidity, Temperature, wind	variable			29N- 34N to 119W - 125W			L	G-109
174	Temperature (Deviations)	seas	15 deg lat		Global (zonal)	Sfc-Stratos	COADS derived	M	G-110
175	Wind, Temperature, Clouds, Heat Flux, Humidity, Pressure, SST	monthly	2x2 deg		Global (ocean)			H	G-111
176	Sea Surface Temperature	mon	2x2 deg		40 S - 60 N	Sfc		H	G-112
177								M	G-113
178	Sea Surface Temperature, Pressure, Wind, Precipitation	Varies			25-60 N and 40-90 W (Ocean)			L	G-114
179	Clouds Climatology		5x10 deg		Global (85N - 85 S )			L	G-115
180								L	G-116
181	Temperatures					Stratosphere	Van Loon/Labitsley	M	G-117
182	Temperatures, water vapor,							M	G-118
183									G-119
184	Solar Flux							L	G-120
185	Precipitation	1/15min, 1/hr			U.S.			M	G-121
186	Climate Data				U.S.			M	G-122
187	Temperature (Deviations)	mon	5x10 deg		Global	Sfc	COADS Derived	H	G-123
188								M	G-124
189	Temperature, Salinity, Dissolved Oxygen, Mixing Depth, Specific Volume (Hydrography)	mon/seas/year	1x1 deg; 5x5 deg		Global			M	G-125
190	Wind Stress, Wind Stress Curl, Sverdrup Transport	1/mon	2.5x2.5 deg		Global	Sfc		M	G-126
191	Temperature, Height, Humidity, Wind, vertical Motion	daily/mon	47x51 Octagonal grid		N. Hemisphere			H	G-127
192	Wind		2.5x2.5 deg		Global			H	G-128
193	TAUX, Y, Wind U, V, and Derived TAU X, Y		2x2 deg		Global	Sfc		M	G-129
194	Solar Flux	1/mon			full Solar Disk			M	G-130
195			2.5 deg	Sfc & 14 levels	Global			H	G-131
196								M	G-132
197					Global			H	G-133
198	Surface Energy Fluxes	monthly	5x5 deg		Global			L	G-134
199	Heat Flux, Precipitation, Temperature, Humidity, Clouds, Wind	monthly	2x2 deg		Global			L	G-135
200		1/6 hr	500x500 km	7 levels	Global	Sfc-Stratos		M	G-136
201	Height, Humidity, Pressure, Temperature, Vertical Motion, Wind	1/6 hr	1.875x1.875 deg	19 levels	Global	1000-10 mb		L	G-137
202	Height, Humidity, Pressure, Sea Surface Temperature, Temperature, Wind, Mixing Depth	12 hr	2.5x2.5 deg (see comments)		Global	Sfc-Stratos	Also available on 63x63 and 125x125 north polar stereographic grids.	H	G-138
203	Wind Stress	mon	2x2 deg		Global	Sfc		L	G-139
204	TAUX, Y, Wind U, V, and Derived TAU X, Y		2x2 deg		Indian Ocean			L	G-140
205	Cloud Climatology							M	G-141
206							on-line data	L	G-142
207								L	G-143

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
208	NS001 TMS	0,1	Aircraft	NS001	PLDS/GSFC	EDC	Yes	TBD	6.76	6.76	MT	297	Tape	5/87-8/89
209	ASAS	0,1	Aircraft	ASAS	PLDS/GSFC	EDC	Yes	GSFC		0.86	MT	38	Tape	7/11/87-08/17/87
210	NERDAS	N/A	Aircraft	Calibration, Navigation	PLDS/GSFC	EDC	Yes	GSFC	1.08	1.08	MT	48	Tape	
211	Autometeorological Station Reports	1B	In-situ		PLDS/GSFC	EDC	Yes	GSFC	1.87	5.60	MT	83	Tape	5/1/87-10/4/87
212	RBV & MSS Films	1B	Landsat 3-4	RBV/MSS	PLDS/GSFC	EDC	Yes	GSFC			Film	1785000 images	N/A	1983-1991
213	MSS digital	1B	Landsat 4-5	MSS	PLDS/GSFC	EDC	Yes	GSFC	2.70	2.70	MT	120	Tape	1987
214	TM Data	1B	Landsat 5-6	TM	PLDS/GSFC	EDC	Yes	GSFC	52.84	68.34	MT	1023		8/21/82-10/27/87
215	Microwave Vegetation Index	3	Nimbus 7	SMMR	PLDS/GSFC	EDC		Choudhury	0.02	0.02	MT	1	Tape	1/79-12/79
216	Snow Depth	3	Nimbus 7	SMMR	PLDS/GSFC	EDC	Yes	GSFC	0.02		MT	1	Tape	11/1/78-8/1/87
217	AVHRR LAC Radiances	1B	NOAA 7-10	AVHRR	PLDS/GSFC	GSFC	Yes	Hutchinson	2.50	7.50	MT	111	Tape	11/2/86-10/26/88
218	AVHRR LAC Radiances	1B	NOAA 7-10	AVHRR	PLDS/GSFC	EDC	Yes	TBD	12.20	36.59	MT	542	Tape	4/15/83-1/29/88
219	GRSFE version 1	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	5.40	11.00	CD-ROM	9		1989
220	Optical Thickness	1	In-situ	Spectrophot.	PLDS/GSFC	EDC	Yes	TBD	0.01	0.05				1988
221	VISSR Radiances	1	GOES	VISSR	PLDS/GSFC	EDC	Yes	TBD	1.07	3.00	MT	76	Tape	1987
222	Superior National Forest	1,2	Multi	Multi	PLDS/GSFC	EDC		TBD	1.50	1.50				1972-1990
223	BRDF data set collection	0,1	Multi	Multi	PLDS/GSFC	EDC	Yes	TBD	TBD	TBD				TBD
224	U of NH data set collection	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
225	NDVI LAC data sets	0,1	NOAA	AVHRR	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
226	MSS land change history	0,1	Landsat	MSS	PLDS/GSFC	EDC	No	TBD	TBD	TBD				TBD
227	Global soil particle size properties	0,1	In-situ	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
228	Zobler world soil data file	0,1	In-situ	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
229	Parabola data sets	0,1	Aircraft	Parabola	PLDS/GSFC	EDC	Yes	TBD	TBD	TBD				TBD
230	FED MAC data sets	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
231	MAC Hydro data sets	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
232	NS001 TMS	0	Aircraft	NS001	PLDS/ARC	EDC	Yes	TBD	4.06	TBD	MT	145	Tape	9/88-8/90
233	Daedalus TMS	0	Aircraft (ER-2, U-2)	Daedalus	PLDS/ARC	EDC	Yes	TBD	2.10	TBD	MT	83	Tape	3/88-10/90
234	Aerial Photos	N/A	Aircraft	Zeiss, Wild	PLDS/ARC	EDC	Yes	ARC	N/A	TBD	Photos	20-30,000	N/A	3/88-10/90
235	Airborne Sunphotometer	0	Aircraft	Photometers	PLDS/ARC	EDC	Yes	ARC	0.02	TBD	MT	1	Tape	6/87-8/89
236	C-130 TMS Data	0	Aircraft	TMS	PLDS/ARC	EDC	Yes	ARC	6.75		MT	300	Tape	9/1/88-8/15/90
237	OTTER-ASAS	0,1	Aircraft	ASAS	PLDS/ARC	EDC	Yes		1.59	TBD	Tapes	70	Tape	6/90-8/90
238	OTTER-AVIRIS	0,1	Aircraft (ER-2)	AVIRIS	PLDS/ARC	EDC	Yes		0.41	TBD	MT	18	Tape	3/90-10/90
239	Field Sunphotometer	1	In-situ	Spectrophotometer	PLDS/ARC	EDC			0.00	TBD				2/90-10/90
240	Radiometer	1	In-situ	SE590	PLDS/ARC	EDC	Yes		1.12	TBD		49	Tape	8/90-12/90
241	Model output	4	Model	N/A	PLDS/ARC	EDC			0.09	TBD	MT	4	Tape	1/90
242	SE590/393 data sets	0,1	In-situ	SE590/393	PLDS/ARC	EDC			TBD	TBD				TBD
243	Barnes MMR	0,1	Aircraft	MMR	PLDS/ARC	EDC			TBD	TBD				TBD
244	CASI	0,1	Aircraft	CASI	PLDS/ARC	EDC			TBD	TBD				TBD
245	FLI	0,1	Aircraft	FLI	PLDS/ARC	EDC			TBD	TBD				TBD
246	Alaskan methane data sets	0,1	Multi	Multi	PLDS/ARC	EDC			TBD	TBD				TBD
247	Aircraft flight facility data sets	0,1	Aircraft	N/A	PLDS/ARC	EDC			TBD	TBD				TBD
248	TMS	0,1A/B	Aircraft	TMS	PLDS/JPL	EDC			19.42	TBD	Tapes	863		8/82-7/89
249	DEM	4	Model	N/A	PLDS/JPL	EDC	Yes	JPL	1.50		MT	250	Tape	
250	Aircraft SAR	0,1	Aircraft	SAR	PLDS/JPL	EDC			TBD	TBD				4/88-7/90
251	Geological Samples		In-situ		PLDS/JPL	EDC	Yes	JPL						2/25/86-7/6/89
252	FTIR spectra	0,1	In-situ	FTIR	PLDS/JPL	EDC	Yes		0.00	TBD				5/1986-6/1989
253	Beckman spectra	0,1	N/A	Beckman UV Spectrometer	PLDS/JPL	EDC	Yes		0.00	TBD				2/1986-7/1989
254	AVIRIS	0,1	Aircraft (ER-2)	AVIRIS	PLDS/JPL	EDC			TBD	TBD				TBD
255	Remote Sensing of Volcanoes	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
256	Mojave field experiments	0,1	Multi	Multi	PLDS/JPL	EDC	Yes		TBD	TBD				TBD
257	Radar measurements of canopies	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
258	Central Andes Gravity data sets	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
259	Geophysics of North America	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
260	Soils survey data sets	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
261	Shuttle large format camera data	N/A	Shuttle	Camera	PLDS/JPL	EDC			N/A	N/A				TBD
262	BUV Data on UA Tapes		AE-E	BUV	NSSDC	GSFC	Yes		0.16	0.16	MT	68	Tape	11/21/75-06/07/81
263	Thunderstorm Noise, Tape	1	ARIEL 3		NSSDC	GSFC	Yes	U.K.	2.12	2.12	MT	16	Tape	05/05/67-04/14/68
264	Total Ozone + Calibrated Radiance		DMSP SD/F1	MFR	NSSDC	GSFC			0.52	0.52	MT	13		03/25/77-01/23/77
265	MFR Total Ozone Grid Point Data	3	DMSP SD/F1	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	03/25/77-01/23/77
266	Total Ozone + Calibrated Radiance		DMSP SD/F3	MFR	NSSDC	GSFC			2.24	2.24	MT	56		07/23/78-02/05/80

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
208	Radiances							L	G-144
209					N. America			L	G-145
210							Calculation tapes for NS001 TMS & TMS	L	G-146
211								L	G-147
212	Photo						FNOC Corrections for GEOSAT	L	G-148
213	Radiances	1/16 days	76-234 m		Global	Sfc		M	G-149
214							CONUS only	M	G-150
215	Vegetation Index	1/mon	.25x.25 Deg	N/A	Global	Sfc		L	G-151
216	Snow Depth	1/mon	0.5x0.5 Deg	N/A	Global	Sfc	106 Data Sets in 1 tape	M	G-152
217	Radiances	2/day	4 km		Global			M	G-153
218	Radiances	2/day	1 km		Regional		552 Tapes	M	G-154
219								L	G-155
220	Optical thickness						on-line	L	G-156
221	Radiances							L	G-157
222							on-line	L	G-158
223	Bi-Directional Reflectance						TBD	L	G-160
224							TBD	L	G-161
225	Radiances	2/day	1 km		Global		TBD	L	G-162
226	Land Change						TBD	L	G-163
227	soil particle size						TBD	L	G-164
228							TBD	L	G-165
229							TBD	L	G-166
230							TBD	L	G-167
231							TBD	L	G-168
232	Radiances		12.2 m		Regional	Sfc - 3km		L	G-170
233	Vis, NIR Radiance	N/A	25 m, Variable	N/A	N. America	Sfc		L	G-171
234	Scene Images	Variable	Variable	N/A	North America	Sfc	867 images	L	G-172
235	Optical Depth				North America	Atmosphere	on-line	L	G-173
236	Radiances						1995 Launch	L	G-174
237	Radiances							L	G-175
238	Radiances							L	G-176
239							on-line	L	G-177
240	Radiances							L	G-178
241								L	G-179
242							TBD	L	G-180
243							TBD	L	G-181
244							TBD	L	G-182
245							TBD	L	G-183
246	Methane data						TBD	L	G-184
247							TBD	L	G-185
248								L	G-188
249	Surface Elevations	N/A	25-80 m		N. America, Hawaii	Sfc	250 DEM's (6MB/DEM)	H	G-189
250	Reflectance	N/A	10 m (approx.)		Atlantic & Pacific Oceans, N. America, Europe	Sfc	1083 Images - ordering supprtd	L	G-190
251							379 Samples	L	G-191
252	Reflectance				Regional		109 Samples (6KB/sample)	L	G-192
253	Reflectance	N/A	0.01%?		Regional		379 Samples ( 3.3 KB/sample)	L	G-193
254	Radiances	N/A	20m	N/A	N. America		TBD	L	G-194
255							TBD	L	G-195
256							TBD	L	G-196
257							TBD	L	G-197
258							TBD	L	G-198
259							TBD	L	G-199
260							TBD	L	G-200
261							TBD	L	G-203
262							75-107A-16A		G-204
263	Noise Intensities, Pulse Counts						67-042A-04A		G-205
264							76-091A-02A		G-206
265	Ozone Gridded Data	1/day	1.5 x 2.5 deg				76-091A-02B		G-207
266							78-042A-02A		G-208

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
267	MFR Total Ozone Grid Point Data	3	DMSP 5D/F3	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	07/23/78-02/05/80
268	Total Ozone - Calibrated Radiance		DMSP 5D/F4	MFR	NSSDC	GSFC			0.84	0.84	MT	21		06/17/79-02/06/80
269	MFR Total Ozone Grid Point Data	3	DMSP 5D/F4	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	06/17/79-02/06/80
270	Total Ozone + Calibrated Radiance		DMSP 5D/F2	MFR	NSSDC	GSFC			3.88	3.88	MT	97		07/13/77-02/16/80
271	MFR Total Ozone Grid Point Data	3	DMSP 5D/F2	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	07/13/77-02/16/80
272	Raw 'State' and Loc. Data Tape	1	EOLE 1	UAWRS	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	08/27/71-07/04/72
273	White Sensor Temp (Night), Tape		EXPLORER 7	Bolometer	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	11/15/59-05/24/60
274	All Sensor Temp, Tape		EXPLORER 7	All Sensors	NSSDC	GSFC	Yes	U. of Wis.	0.08	0.08	MT	2	Tape	10/19/59-06/04/60
275	Nimbus HRIR Met. Radiation Tapes	2	Nimbus 1	HRIR	NSSDC	GSFC	Yes	GSFC	9.52	9.52	MT	238	Tape	08/29/64-09/22/64
276	Nimbus HRIR Met. Radiation Tapes	2	Nimbus 2	HRIR	NSSDC	GSFC	Yes	GSFC	70.40	70.40	MT	1739	Tape	05/15/66-11/15/66
277	Nimbus MRIR Met. Radiation Tapes	2	Nimbus 2	MRIR	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	8	Tape	05/15/66-07/28/66
278	HRIR Meteor. Radiation Tapes		Nimbus 3	HRIR	NSSDC	GSFC			40.60	40.60	MT	1015	Tape	04/17/69-03/21/70
279	SIRS Radiance Tapes		Nimbus 3	SIRS	NSSDC	GSFC			0.66	0.66	MT	6	Tape	04/14/69-06/19/70
280	MRIR Meteor. Radiation Tapes		Nimbus 3	MRIR	NSSDC	GSFC	Yes		14.72	14.72	MT	390	Tape	04/15/69-02/04/70
281	11.5-Micron Cloud Radiance Tape	1	Nimbus 4	THIR	NSSDC	GSFC	Yes	GSFC	51.72	51.72	MT	1313	Tape	04/10/70-02/13/71
282	6.7-Micron Cloud Radiance Tape	1	Nimbus 4	THIR	NSSDC	GSFC	Yes	GSFC	41.28	41.28	MT	1034	Tape	04/14/70-03/25/71
283	IRIS Radiance Tapes	1	Nimbus 4	IRIS	NSSDC	GSFC	Yes	GSFC	4.78	8.72	MT	29	Tape	04/09/70-01/30/71
284	SIRS Radiance Tapes		Nimbus 4	SIRS	NSSDC	GSFC			0.49	0.49	MT	3	Tape	04/08/70-04/08/71
285	BUV Radiance Values (U-Tape)		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.36	0.36	MT	9	Tape	04/10/70-05/06/77
286	Primary Data Base Tapes (PDB)	1	Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	7.52	7.52	MT	188	Tape	04/09/70-05/06/77
287	BUV Dark Current Study MSTR Data		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.12	0.12	MT	3	Tape	04/10/70-12/16/71
288	BUV Dark Current Study Work Data		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.12	0.12	MT	3	Tape	04/10/70-12/16/71
289	Zonal Means Tape (ZMT)	2	Nimbus 4	BUV	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	04/10/70-05/02/77
290	Total + Profile O3 TP (HDBUV)	1	Nimbus 4	BUV	NSSDC	GSFC			1.65	1.65	MT	15		04/10/70-05/06/77
291	SCR Radiance Tapes	1	Nimbus 4	SCR	NSSDC	GSFC			0.65	0.56	MT	14	Tape	7/20/70 - 11/30/73
292	Radiance Observations On Tape	1	Nimbus 5	ITPR	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	02/14/75-09/30/76
293	SCR Radiance Tapes	1	Nimbus 5	SCR	NSSDC	GSFC			0.52	0.52	MT	13	Tape	12/13/72-12/26/74
294	NEMS Output Tapes (NEMSOT)	1	Nimbus 5	NEMS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/18/72-10/31/73
295	ESMR Calib Brght Temp (CBT) Tapes	1	Nimbus 5	ESMR	NSSDC	GSFC	Yes	GSFC	11.33	11.33	MT	103	Tape	12/16/72-05/16/77
296	11.5 Micron Cloud Radiance Tape	1	Nimbus 5	THIR	NSSDC	GSFC	Yes	GSFC	5.72	5.72	MT	52	Tape	12/19/72-02/07/74
297	6.7 Micron Cloud Radiance Tape	1	Nimbus 5	THIR	NSSDC	GSFC	Yes	GSFC	41.20	41.20	MT	646	Tape	12/19/72-02/07/74
298	HIRS/SCAMS Radiation, Temperature, & Humidity	2	Nimbus 6	HIRS / SCAMS	NSSDC	GSFC			29.48	29.48	MT	269	Tape	08/17/75-03/04/76
299	Inversion Temperature & Ozone Profile Archival Tape (IPAT)	3	Nimbus 6	LRIR	NSSDC	GSFC	Yes	GSFC	0.28	0.28	MT	7	Tape	06/25/75-01/06/76
300	HIRS/SCAMS Radiation, Temperature, & Humidity	2	Nimbus 6	HIRS / SCAMS	NSSDC	GSFC			10.72	10.72	MT	269	Tape	08/17/75-03/04/76
301	11.5-Micron Cloud Radiance Tape	1	Nimbus 6	THIR	NSSDC	GSFC	Yes	GSFC	0.48	0.48	MT	12	Tape	06/18/75-09/14/76
302	6.7-Micron Cloud Radiance Tape	1	Nimbus 6	THIR	NSSDC	GSFC	Yes	GSFC	0.44	0.44	MT	111	Tape	06/18/75-05/06/77
303	TEMP+MIX Ratio Profil TP(LAIPAT)	3	Nimbus 7	LIMS	NSSDC	GSFC	Yes	GSFC	1.44	1.44	MT	36	Tape	10/25/78-05/29/79
304	Radiance Archival Tape (RAT)	1	Nimbus 7	LIMS	NSSDC	GSFC	Yes	LaRC	8.20	8.20	MT	205	Tape	10/25/78-05/30/79
305	Radiance Profil Tape (Profile-R)	2	Nimbus 7	LIMS	NSSDC	GSFC	Yes	LaRC	0.32	0.32	MT	8	Tape	10/25/78-05/30/79
306	90-D Temp MIX RAT HT Maps(LASMAT)	3	Nimbus 7	LIMS	NSSDC	GSFC	Yes	GSFC	0.04	0.04	MT	1	Tape	10/25/78-05/29/79
307	Image File & Browse Software		Nimbus 7	SMMR	NSSDC	GSFC			0.02	0.02	Floppy	18		
308	Antenna Temperature Tape (TAT)	1	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	82.06	82.06	MT	574	Tape	10/25/78-06/29/88
309	Horiz. & Vert. Polarized Brightness Temp.	1	Nimbus 7	SMMR	NSSDC	GSFC			21.12	21.12	MT	541	Tape	10/29/78-08/25/87

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
267	Ozone Gridded Data	1/day	1.5 x 2.5 deg				78-042A-02B		G-209
268							79-050A-02A		G-210
269	Ozone Gridded Data	1/day	1.5 x 2.5 deg				79-050A-02B		G-211
270							77-044A-02A		G-212
271	Ozone Gridded Data	1/day	1.5 x 2.5 deg				77-044A-02B		G-213
272	Temperature, Pressure, Locations				30 S- 60 S	Near 200 mb	71-071A-01A		G-214
273	Temperature						59-009A-01A		G-215
274	Radiance temp.						59-009A-01B		G-216
275	Radiation Data						64-052A-03A		G-217
276	Radiation Data						66-040A-03A		G-218
277	Radiation Data						66-040A-04A		G-219
278	Day and Night Radiation Values	1/day					69-037A-02C		G-220
279	Radiances						69-037A-04A		G-221
280	Radiances						69-037A-05B		G-222
281	Brightness Temp. (11.5 micron) Data	14/day	7.7 km		Global		70-025A-02D		G-223
282	Brightness Temp. (6.7 micron) Data	14/day	22.6 km		Global		70-025A-02E		G-224
283	Calib. Radiances						70-025A-03A		G-225
284	Radiances						70-025A-04A		G-226
285	UV Radiances (.25-.34						70-025A-05B		G-227
286	Raw Counts						70-025A-05E		G-228
287	Solar Magnetic Parameters, Pulse counts, Analog Data						70-025A-05H		G-229
288	Solar Magnetic Parameters, Pulse counts, Analog Data (filtered)						70-025A-05I		G-230
289	Tot. Ozone, Mixing Ratio, Reflectivity	1/day, 1/wk, 1/mon, 1/season	10 deg Lat.		80 N - 80 S	100- 0.3 mb	70-025A-05O		G-231
290							70-025A-05Q		G-232
291	Calib. Radiance		25 km				70-025A-10A		G-233
292	IR Radiances						72-097A-01A		G-234
293	Calib. Radiance		25 km				72-097A-02A		G-235
294	Sfc Reflectance, Water Vapor, Liquid Water, Thickness, Temp.	2/day		Pressure Levels	Global		72-097A-03A		G-236
295	Calibrated Brightness Temp. (19.35 GHz)	2/day	25 - 160 km				72-097A-04A		G-237
296	Brightness Temp. (11.5 micron) Data	14/day	8.2 km		Global		72-097A-08C		G-238
297	Brightness Temp. (6.7 micron) Data	14/day	22.5 km		Global		72-097A-08D		G-239
298	Temp, Humidity Profiles, Calib. Radiances, Sfc Albedo, Cloud parameters	2/day	300 km	Variable	Global	1000 - 1 mb	75-052A-02B		G-240
299	Temp., O3 Conc. Profiles		4 deg	Pressure level	84 N - 64 S	1000 - 0.1 mb	75-052A-04A		G-241
300	Temp, Humidity Profiles, Calib. Radiances, Sfc Albedo, Cloud parameters				Global	1000 - 1 mb	75-052A-10C		G-242
301	Brightness Temp. (11.5 micron) Data	14/day	8.2 km		Global		75-052A-12C		G-243
302	Brightness Temp. (6.7 micron) Data	14/day	22.5 km		Global		75-052A-12D		G-244
303	Temperature Profiles, Ozone Mixing ratios, H2O, Nitric Acid, N2O	1/day	4 x 4 deg		84 N - 64 S	10 - 65 km	78-098A-01A		G-245
304	Calibrated Radiances	2/day	4 deg Lat. zones		84 N- 64 S	10-65 km	78-098A-01B		G-246
305	Radiance Profiles	1/day		.1 km			78-098A-01F		G-247
306	Temp., O3, NO2, Water Vapor, Nitric Oxide	1/seas	4 x 4 deg		84N - 64S		78-098A-01L		G-248
307							78-098A-03G		G-249
308	Antenna Temperature				Global		78-098A-08A		G-250
309	Brightness Temp. (calib)		30 - 156 km				78-098A-08B		G-251

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
310	Param of Land and Ocean (PARM-LO)	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	9.72	9.72	MT	243	Tape	10/29/78-10/29/86
311	Mapped Param. 37-GHZ Chan(MAP-30)	3	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	2.40	2.40	MT	60	Tape	10/30/78-10/30/83
312	Mapped Parameters of Land-Ocean (MAP-LO)	3	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	2.40	2.40	MT	60	Tape	10/30/78-10/26/83
313	Calibrated Temperature Tape(TCT)	1	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	58.96	58.96	MT	541	Tape	10/25/78-08/20/87
314	0.5-Deg Cal. Temp Map (TCT) Tape	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	14.19	14.19	MT	101	Tape	10/25/78-08/20/87
315	0.25-Deg Cal. Temp Map (TCT) Tape	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	3.96	3.96	MT	36	Tape	10/25/78-08/20/87
316	Antenna Temperature (TAT) , Optical Disk	1	Nimbus 7	SMMR	NSSDC	GSFC		GSFC	1.00	1.00	OD	1		10/25/78 - 04/09/88
317	TOMS Near Realtime System	2	Nimbus 7	TOMS	NSSDC	GSFC	Yes		0.44	0.60	MT	11	Tape	03/01/81-05/15/81
318	HDTOMS Total Ozone Data Tape	2	Nimbus 7	TOMS	NSSDC	GSFC	Yes		21.67	30.00	MT	159	Tape	10/31/78-01/07/90
319	SBUV Total + Profil Ozone TP(HDSBUV)	2	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	6.27	6.27	MT	36	Tape	10/31/78-03/01/88
320	Raw Units Tape TOMS (RUT-T)	1	Nimbus 7	TOMS	NSSDC	GSFC	Yes		34.20	70.00	MT	755	Tape	10/31/78-01/14/90
321	Raw Units Tape-SBUV Data (RUT-S)	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes		23.16	23.10	MT	458	Tape	10/31/78-03/17/90
322	SBUV Zonal Means Ozone TP(ZMT-S)	3	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.44	0.44	MT	7	Tape	10/31/78-02/29/88
323	SBUV Cmpres Profil Ozone TP(CPOZ)	3	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.48	0.48	MT	10	Tape	10/31/78-12/31/87
324	SBUV Cont Scan Earth Rad TP	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	7	Tape	11/04/78-10/28/86
325	SBUV Cont Scan Solar Flux TP SUNC	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	7	Tape	11/04/78-10/28/86
326	SBUV Total O3&PFL Contour(PSC)TP	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.28	0.28	MT	10	Tape	11/07/78-09/30/86
327	TOMS Gridded Ozone Data, CD-ROM	2	Nimbus 7	TOMS	NSSDC	GSFC			0.60	0.60	CD	1		11/01/78 - 12/31/88
328	TOMS Image Ozone Data, CD-ROM		Nimbus 7	TOMS	NSSDC	GSFC		GSFC	0.60	0.60	CD	1		11/01/78 - 03/31/91
329	Calib.-Located RAD Data TP(CLDT)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	179.12	179.12	MT	200	Tape	10/30/78-05/09/85
330	Cloud Data ERB Format (NCLE)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	41.44	41.44	MT	312	Tape	04/01/79-03/31/85
331	Cloud Data TOMS Format (BCLT)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	35.72	35.72	MT	893	Tape	04/01/79-11/04/84
332	Ozone Radiance Data, Tape	1	SME	LVUVOS	NSSDC	GSFC	Yes	GSFC	0.68	0.68	MT	17		12/16/81-12/18/86
333	Daily Orbital Ozone Profile, Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/15/81-12/18/86
334	1-D & 30 D Avg. Ozone Vol. Mixing Ratio (VMR) Profiles Tape	2	SME	LVUVOS	NSSDC	GSFC		GSFC	0.04	0.04	MT	1		01/06/82 - 12/11/86
335	Orbit NO Density PFL Geo Lat Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes		0.12	0.12	MT	3		01/06/82-12/16/86
336	Orbit NO Density PFL Mag Lat Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes		0.12	0.12	MT	3		01/06/82-12/16/86
337	Radiance Data, Tape	1	SME	NIRS	NSSDC	GSFC	Yes		2.08	2.08	MT	52		12/16/81-11/26/86
338	Daily Orbital Ozone Profile, Tape		SME	NIRS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/15/81-12/18/86
339	IR ID + 30D Ozone VMR PFL Tape		SME	NIRS	NSSDC	GSFC	Yes	GSFC	0.04	0.04	MT	1	Tape	01/01/82-12/18/86
340	Daily Avg. Column NO2, Tape	3	SME	VND	NSSDC	GSFC	Yes	GSFC	0.08	1.00	MT	25	Tape	01/01/82-12/18/86
341	Orbital Nitrogen Dioxide PFL,	2	SME	VND	NSSDC	GSFC	Yes		0.08	0.08	MT	2		02/17/82-12/31/86
342	30-D Avg. Nitrogen Dioxide PFL, Tape	3	SME	VND	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	01/01/82-12/31/86
343	Solar Irradiance Data, Tape	1	SME	SUVM	NSSDC	GSFC			0.46	0.46	MT	1	Tape	01/01/82-06/30/88
344	Calibrated Radiance Data	1B	Shuttle	OCE	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	11/14/81-11/14/81
345	Radiometric Calibration Data	1	Shuttle	SMIRR	NSSDC	GSFC	Yes		0.08	0.04	MT	2	Tape	06/09/81-03/01/82
346	Uncalibrated Radiometer Data	0	Shuttle	SMIRR	NSSDC	GSFC	Yes		0.21	0.21	MT	5	Tape	11/12/81-11/14/81
347	Trace+Minor Gas Mix Ratio Profiles	2	Spacelab 3	ATM	NSSDC	GSFC			0.04	0.04	FLOPPY	1	N/A	04/01/85-05/31/85
348	IR Spectral Data Tapes	1	Spacelab 3	ATM	NSSDC	GSFC	Yes	GSFC	2.42	2.42	MT	22	Tape	04/29/85-05/06/85
349	RAW Solar IR Spectral Data Tapes	0	Spacelab 3	ATM	NSSDC	GSFC	Yes	JPL	0.11	0.11	MT	1	Tape	04/29/85-05/02/85
350	Final Met. Radiation Tapes	1	TIROS 2	SR	NSSDC	GSFC	Yes		0.08	0.08	MT	16	Tape	11/23/60-04/26/61
351	Omnidirectional Radiometer Tapes	1B	TIROS 3	OR	NSSDC	GSFC	Yes		0.20	0.20	MT	5	Tape	07/12/61-10/20/61



## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
310	SST, Tot. Atm. Water Vapor, Sea Sfc Wind		156 km, 60 km, 97.5 km		60 N - 55 S		78-098A-08D		G-252
311	Brightness Temp.	1/6 days, 1/mon	533 x 533 PS Grid				78-098A-08G		G-253
312	SST, Wind, Total Water Vapor	1/6 days, 1/mon	Variable		Global(64 N - 64 S)		78-098A-08H		G-254
313	Model Calibrated Radiance Temp.		148, 91, 55, 27 km				78-098A-08W		G-255
314	Calibrated Brightness Temp.	1/6day	55 x 55 km		Global (85N-85S)		78-098A-08Y		G-256
315	Calibrated Brightness Temp.	1/6day	27.5 x 27.5 km		Global (85N-85S)		78-098A-08Z (9 Tks/6250bpi)		G-257
316							78-098A-08d		G-258
317	Real Time System Data						78-098A-09A		G-259
318	Total Ozone, Sfc Reflectivity, Albedo		66 x 66 km	Variable	Global	Atmosphere	78-098A-09C		G-260
319	Tot. Ozone, Reflectivity, Ozone profile, Layer O3 Amt.	2/day		8 km	80 N - 80 S	100 - 0.3 mb	78-098A-09D		G-261
320	Raw UV Radiance, Cloud Info.				80N-80S		78-098A-09E		G-262
321	Raw Radiance, Cloud Info.				80N-80S		78-098A-09F		G-263
322	Tot. Ozone, Reflectivity, Ozone Mixing Ratio	1/day, 1/wk, 1/mon, 1/season	10 deg Latitude		80 N - 80 S	100 - 0.3 mb	78-098A-09K		G-264
323	Tot. Ozone, Reflectivity, Ozone Mixing Ratio, Layer O3 Amt.					100 - 0.3 mb	78-098A-09Q		G-265
324	Normalized and mean Solar Irradiance	1/day			80 N - 80 S		78-098A-09U		G-267
325	Normalized and mean Solar Irradiance	1/day			80 N - 80 S		78-098A-09V		G-268
326	Tot. Ozone, Profile Ozone	1/day	65 x 65 P.S. grid		80 N - 80 S	30 - 0.4 mb	78-098A-09W		G-269
327							78-098A-09Z		G-270
328							78-098A-09a		G-271
329	Calibrated Radiance(6.7,11.5 micrometer)	14/day			Global		78-098A-10C		G-272
330	Total, low, mid and high Cloud Amount, Cirrus/deep convect. cloudiness, Cloud & Surface Rad.	2/ day	165 x 165 km		Global		78-098A-10D		G-273
331	Total, low, mid and high Cloud Amount, Cirrus/deep convect. cloudiness, Cloud & Surface Rad.	2/ day	50 - 200 km		Global	2 - 10 km	78-098A-10E		G-274
332	UV Radiances			3.5 km		41-83 km	81-100A-01B		G-275
333	O3 Profiles						81-100A-01C		G-276
334		1/day, 1/mon					81-100A-01E		G-277
335	Nitric Oxide Profiles					8 Pressure levels	81-100A-01G		G-278
336	Nitric Oxide Profiles					8 Pressure levels	81-100A-01F		G-279
337	LW and SW Radiance Profile						81-100A-03B		G-280
338	O3 Profiles	1/day					81-100A-03C		G-281
339		1/day, 1/mon					81-100A-03E		G-282
340	NO2 Column Density	1/day (ave.)	5 deg zones		85 N - 85 S	20-76 km	81-100A-04A		G-283
341	NO2 Mixing Ratio Profiles		5 deg latitude		Global	8 Pressure levels	81-100A-04B		G-284
342	NO2 Profiles	1/mon (ave.)				Mesosphere?	81-100A-04C		G-285
343	Solar Irradiance	1/day					81-100A-05A		G-286
344	Calibrated Radiance(.49-.79 micrometer)		1-3 km		Mediterranean, Yellow sea	Sfc	81-111A-05A		G-287
345	Calibration data						81-111A-02A		G-288
346	Raw Radiometric Measurements						81-111A-02B		G-289
347	Trace and Minor Gas Volume Mixing Ratios	2/day		4.1 km	Near 30 N, and 47 S	10 - 150 km	85-034A-14A		G-290
348							85-034A-14B		G-291
349							85-034A-14E		G-292
350	Calibrated Radiances ( .2-30 micrometers)						60-016A-02A		G-293
351	Radiances						61-017A-01A		G-294

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
352	Final Met. Radiation Tapes	1	TIROS 3	SR	NSSDC	GSFC	Yes		0.08	0.08	MT	74	Tape	07/12/61-10/01/61
353	Omnidirectional Radiometer Tapes	1B	TIROS 4	OR	NSSDC	GSFC	Yes		0.42	0.42	MT	10	Tape	02/08/62-06/28/62
354	Radiance Value Tapes	1	TIROS 4	OR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	02/08/62-06/10/62
355	Final Met. Radiation Tapes	1	TIROS 4	SR	NSSDC	GSFC	Yes		0.12	0.12	MT	3	Tape	02/08/62-06/30/62
356	Omnidirectional Radiometer Tapes	1B	TIROS 7	OR	NSSDC	GSFC	Yes		0.36	0.36	MT	9	Tape	06/19/63-08/29/63
357	Final Met. Radiation Tapes	1	TIROS 7	SR	NSSDC	GSFC	Yes		38.42	38.48	MT	689	Tape	06/19/63-06/19/65
358	TOVS Raw Data w/Calib. & Locations		NOAA	TOVS	NSSDC	GSFC			95.42	95.42	MT	2259		10/29/78-04/11/85
359	Sensor Data Record	1A	Seasat	Altimeter	NODS/JPL	JPL	Yes		0.44	0.44				7/778-10/10/78
360	Geophysical Data Record	1B	Seasat	Altimeter	NODS/JPL	JPL	Yes		0.35	0.35	MT	14	Tape	7/778-10/10/78
361	Sensor Data Record	1A	Seasat	SMMR	NODS/JPL	JPL	Yes		5.68	5.68				7/778-10/10/78
362	Geophysical Data Record	1B	Seasat	SMMR	NODS/JPL	JPL	Yes		0.17	0.17				7/778-10/10/78
363	Sensor Data Record	1A	Seasat	Scatterometer	NODS/JPL	JPL	Yes		8.00	8.00				7/778-10/10/78
364	Geophysical Data Record	1B	Seasat	Scatterometer	NODS/JPL	JPL	Yes		0.34	0.34				7/778-10/10/78
365	Carsey-Pihos Polar Gridded Data	3	Seasat	SMMR	JPL	JPL	Yes		0.07	0.07				7/778-10/10/78
366	Wentz Co-located Sigma-Naught	2	Seasat	Scatterometer	JPL	JPL	Yes		1.77	1.77				7/778-10/10/78
367	Atlas Dealiasd Gridded Surface-Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.64	0.64				7/778-10/10/78
368	Wentz,Atlas,Freilich Dealiasd Surface Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.26	0.26				7/778-10/10/78
369	Chelton Monthly Wind Vectors	3	Seasat	Scatterometer	JPL	JPL			0.05	0.05				7/778-10/10/78
370	JPL-UCLA-AES Dealiasd Surface-Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.05	0.05				9/6/78-9/20/78
371	Sensor Data Record	1A	Seasat	VIRR	NODS/JPL	JPL	Yes		2.50	2.50				7/778-10/10/78
372	Wentz Ocean Products	2	DMSP	SSM/I	JPL	JPL	Yes		4.00	8.00				7/87-12/90
373	Atlas Surface Wind Analysis Fields	2,3,4	DMSP	SSM/I + In-situ	JPL	JPL	Yes		0.45	0.45				7/87-6/88
374	Monthly and 5-Day Avg of Atlas Surface Wind Analysis Fields	3,4	DMSP	SSM/I	JPL	JPL	Yes		0.01	0.01				7/87-6/88
375	Wentz SSM/I Colocated with Geosat	2	DMSP	SSM/I	JPL	JPL			0.15	0.15				7/87 - 12/89
376	Emery Water Vapor Corrections	3	DMSP	SSM/I	JPL	JPL			0.05	0.05				7/15-8/16/87
377	Emery Water Vapor Corrections	3	NOAA	TOVS	JPL	JPL			0.05	0.05				1/87-8/87
378	Tropospheric Corrections - FNOG	2			NODS/JPL	JPL			0.28	0.28				11/8/86-12/28/88
379	Geophysical Data Record	1B	GEOS 3	ALT	NODS/JPL	JPL	Yes		0.17	0.17				4/24/75-12/1/78
380	Ocean Height	2	GEOSAT	ALT	JPL	JPL				6.00				11/86-9/89
381	Ocean Wind Speed	2	GEOSAT	ALT	JPL	JPL				1.00				11/86-9/89
382	Zlotnicki-Fu Interp Along Track	2	GEOSAT	ALT	JPL	JPL	Yes		0.70	0.70				11/86-9/89
383	Co-located Geosat and Buoy Data	2	GEOSAT	ALT, Buoy	JPL	JPL			0.05	0.05				11/86-9/89
384	CD-ROM of CZCS Pigment and MCSST	3	Nimbus 7 & NOAA	CZCS & AVHRR	JPL	JPL				6.80				1978-1986
385	Reprocessed Brightness Temp.	2	Nimbus 7	SMMR	JPL	JPL				10.00				7/78-10/86
386	Ocean Heat Fluxes	3	Nimbus 7	SMMR	JPL	JPL		GSFC	0.05	0.05				7/78-10/86
387	Surface Wind; Atmos Water	3	Nimbus 7	SMMR	JPL	JPL				6.00				7/78-10/86
388	Miami MCSST	3	NOAA	AVHRR	JPL	JPL			10.00	14.00				10/81-6/91
389	West Coast Time Series - LAC	3	NOAA	AVHRR	JPL	JPL				6.80				2/79-6/86
390	Sea Surface Temperature - Day and Night Composite - 9 km	3	NOAA 7,9,11	AVHRR		JPL		GSFC		1,140.00				1981 - on
391	Sea Surface Temperature - 10 Day Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		114.00				1981 - on
392	Sea Surface Temperature - Monthly Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		38.00				1981 - on
393	Buoy Match-up Data	1,3	NOAA 7,9,11	AVHRR		JPL		GSFC						1981 - on
394	TOGA CD-ROM	2,3,4	Multi		JPL	JPL				6.80				1985-1995
395	Altimetry CD-ROM	2,3	GEOS 3, SEASAT, GEOSAT	Altimeter	JPL	JPL				6.80				
396	Precision Orbit Determination	1	TOPEX	GPS Receiver	JPL	JPL				1.00				7/92 - on
397	Sensor Data Records	1	TOPEX	Microwave Radiometer	JPL	JPL	No			0.70				7/92 - on
398	Sensor Data Records	1	TOPEX	Altimeter	NODS/JPL	JPL	No			106.00				7/92 - on

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
352	Calibrated Radiances ( 2-30 micrometers)						61-017A-03A		G-295
353	Radiances						62-002A-01A		G-296
354	LW Radiance, Albedo	2/day					62-002A-01B		G-297
355	Calibrated Radiances ( 2-30 micrometers)						62-002A-03A		G-298
356	Radiances						63-024A-01A		G-299
357	Calibrated Radiances ( 2-30 micrometers)						63-024A-02A		G-300
358							SN-21A		G-301
359	Sensor Data		2.4-12km		Global		Granule - 1 orbit	L	J-01
360					Global		Granule - specific periods/regions, Calibrated & Corrected Data	M	J-02
361	Sensor Data	orbital	16-50km		orbital		Granule - 1 orbit	M	J-03
362	Geophys. Data	orbital	25-125km		Specific periods/regions		Calibrated & Corrected Data	L	J-04
363	Sensor Data		50km		Global		Granule - 1 orbit	L	J-05
364					Ocean		Granule - specific periods/regions, Calibrated & Corrected Data	M	J-06
365			100x100 km		Ocean	Sfc	Mean Stand Dev, Min, and Max	M	J-07
366			50x50 km		Ocean	Sfc		M	J-08
367	Surface Wind Vector		100x100 km		Ocean		SASS1 Algorithm	M	J-09
368	Wind Vectors		100km		Ocean	Sfc	SASS2 Algorithm	M	J-10
369			2.5 x 2.5 deg		Ocean	Sfc	Ave of SASS2 Product	M	J-11
370	Surface wind Vectors	1/6hours	1 x 1 deg		Ocean	Sfc		M	J-12
371	Sensor Data		3-5km		Global		"Raw" Data	L	J-13
372	Wind Speed	1/6 hrs	25 km		Ocean	Sfc	25 km Cells of Wind Speed	H	J-14
373	Surface Wind	1/6 hrs	2x2.5 deg		Ocean	Sfc	Atlas	M	J-15
374	Surface Wind	1/5 day, 1/mon	2 x 2.5 deg		Ocean	Sfc	Temporal avg.; same as above	M	J-16
375					Ocean			M	J-17
376	Water Vapor	1/wk			Ocean		Gridded Water Vapor	M	J-18
377	Water Vapor	1/wk			Ocean		Gridded Water Vapor	M	J-19
378					Ocean		Wet & Dry Correction	M	J-20
379					Global			M	J-21
380	Wave Height				Ocean	Sfc	GEM-T2 Orbit;w/ SSM/I Correction	M	J-22
381	Wind Speed				Ocean	Sfc	Correction for Wave Age	M	J-23
382					Regional		Selected Periods	M	J-24
383						Sfc		M	J-25
384	Pigment, SST		18 km				International Space Year	M	J-26
385	Brightness Temperature						Consistent Calibration	H	J-27
386	Heat Flux						THEP Task	H	J-28
387	Surface Wind, Atmospheric Water						SSM/I Algorithm	H	J-29
388	SST	1/wk	18x18 km		Global & Regional	Sfc	18 km, Weekly Avg, Global& Regional	M	J-30
389					20N-55N; 105W-140W		20N-55N; 105W-140W	L	J-31
390	SST	2/day	9 km		Global / Ocean			H	J-32
391	SST	10 day composite	9 km		Global / Ocean			H	J-33
392	SST	1 mo composite	9 km		Global / Ocean			H	J-34
393	SST				Global / Buoy Locations			H	J-35
394							Completed by 1997	M	J-36
395					Ocean		Combine Geos-3, Seasat, Geosat	M	J-37
396					Ocean		GGI Pre-cursor Data set (J-39)	M	J-38
397	Microwave Radiances				Global		Radiances	H	J-39
398	Altimeter Data				Global		Altimeter	H	J-40

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
399	Geophysical Data Record	2	TOPEX	Altimeter	NODS/JPL	JPL	No			10.00				7/92 - on
400	Merged Geophysical Data	3	TOPEX	Altimeter		JPL	No	CNES						6/92 - on
401	SeaWiFS Local Area Cov., LAC	1	SeaStar	SeaWiFS	JPL	JPL	No			30.00				8/93 - on
402	SCAMS Output TP of H2O + TMP (SOTA)	2	Nimbus 6	SCAMS	NSSDC	JPL	Yes	GSFC	0.92	0.92	MT	23	Tape	06/15/75-05/29/76
403	S4 Monthly Averages	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.60	1.70				11/84-2/90
404	S4G Monthly Averages	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.40	1.90				11/84-2/90
405	S9 - Radiant Exitance and Albedo	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		4.50	13.60				11/84-2/90
406	S10 - Radiant Exitance and Albedo	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.30	1.70				11/84-12/93
407	Telemetry & Ephemeris	0	ERBS	ERBE	LaRC	LaRC	Yes	LaRC	47.00	66.00				11/84-12/93
408	S8 - Processed Archival Tape	2	ERBS	ERBE	LaRC	LaRC	Yes		53.00	62.00				11/84-2/90
409	S2 - Solar Incidence	2	ERBS	ERBE	LaRC	LaRC	Yes		0.01	0.04				11/84-12/93
410	S7 - Medium/Wide FOV	2	ERBS	ERBE	LaRC	LaRC			0.00	3.50				11/84-12/93
411	ERB MATRIX Tape	3	Nimbus 7	ERB	NCDS	LaRC		LaRC	1.90	1.90				11/78-11/87
412	ERB Seasonal Average	3	Nimbus 7	ERB	NCDS	LaRC		LaRC	0.20	0.20				12/78-3/86
413	ERB Solar Analysis Tape	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.00	0.00	MT	1	CDF	11/16/78-3/30/86
414	ERB Solar Irradiance	2	Nimbus 7	ERB	NCDS	LaRC		LaRC						11/78-7/89
415	Lyman Alpha Solar Irradiance	2	SME		NCDS	LaRC		LaRC						1/81-12/87
416	Mean Solar Flux	2	SMM	ACRIM	NCDS	LaRC		LaRC						2/80-12/88
417	Telemetry & Ephemeris	0	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	71.00	104.00				2/85-12/93
418	S8 - Processed Archival Tape	2	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	28.00	28.00				2/85-1/87
419	S2 - Solar Incidence	2	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	0.01	0.04				2/85-12/93
420	S7 - Medium/Wide FOV	2	NOAA 9	ERBE	NSSDC	LaRC		LaRC	0.00	3.40				2/85-12/93
421	Telemetry & Ephemeris	0	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	50.00	84.00				11/86-12/93
422	S8 - Processed Archival Tape	2	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	1.10	36.00				11/86-5/89
423	S2 - Solar Incidence	2	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	<0.001	0.03				11/86-12/93
424	S7 - Medium/Wide FOV	2	NOAA 10	ERBE	NSSDC	LaRC		LaRC	0.00	2.70				11/86-12/93
425	Telemetry and Ephemeris	0	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	10.00	10.00				02/21/79-11/18/81
426	Merged Ephemeris & Radiance Data - MERDAT	1	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	5.70	5.70				02/21/79-11/18/81
427	Monthly NO2 Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.20	0.20				02/21/79-11/18/81
428	Monthly Aerosol Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.40	0.40				02/21/79-11/18/81
429	Monthly O3 Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.20	0.20				02/21/79-11/18/81
430	Aerosol,NO2,O3 Maps	3	AEM-2	SAGE I	NSSDC	LaRC	No	LaRC		TBD				02/21/79-11/18/81
431	Telemetry and Ephemeris	0	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	27.00	39.00				10/84-12/93
432	Merged Ephemeris & Radiance Data - MERDAT	1	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	16.00	23.00				10/84-12/93
433	Monthly NO2 Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.10	0.20				10/84-12/93
434	Monthly Aerosol Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.50	1.10				10/84-12/93
435	Monthly O3 Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.20	0.50				10/84-12/93
436	Monthly H2O	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.00	0.60				10/84-12/93
437	Aerosol,NO2,O3,H2O Maps	3	ERBS	SAGE II	NSSDC	LaRC				TBD				10/84-12/93
438	Cloud Occurrence	3	AEM-2 & ERBS	SAGE I & SAGE II	NSSDC	LaRC	No			TBD				TBD
439	Telemetry and Met Data	0	Nimbus 7	SAM II	NSSDC	LaRC	Yes	LaRC	15.00	18.00				10/78-12/93
440	Beta & Aerosol Number Density - BANAT	2	Nimbus 7	SAM II	NSSDC	LaRC	Yes	LaRC	0.30	0.30				10/78-12/93
441	Daily Surface Radiation Budget Maps	3		SRB		LaRC		LaRC		1.60				7/83-6/91
442	Monthly Surface Radiation Budget Maps	3	Multi	SRB		LaRC		LaRC		0.10				7/1983-6/1991
443	Stage B3 GLOBAL Cloud Data	2	NOAA, GOES	ISCCP	NCDS	LaRC		GISS	0.00	230.00				7/83-1/92
444	Stage C1 Cloud Analysis	3	NOAA, GOES	ISCCP	NCDS	LaRC	Yes	GISS	3.00	8.00				7/83-1/92
445	Stage C2 Cloud Analysis	3	NOAA, GOES	ISCCP	NCDS	LaRC	Yes	GISS	0.10	0.40				7/83-1/92
446	Global Area Coverage - GAC	1B	NOAA	AVHRR	NCDS	LaRC	Yes	NOAA	300.00	>300				10/84-6/89

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
399	Ocean Height, Significant Wave Height, Surface Wind				Global		June 1992 Launch	H	J-41
400	Ocean Height, Significant Wave Height, Surface Wind				Ocean		June 1992 Launch	H	J-42
401	Radiances				Regional			H	J-43
402	Brightness Temp., Water Amt., Cloud Water Content, Temp., Mean Layer Temp.		145 - 330 km	Pressure levels	80 N - 80 S	1000 - 100 mb	75-052A-10A		J-44
403	Average Radiometric measurements	1/mon			Global		Regionally Oriented; Combined Satellites	H	L-01
404	Average Radiometric measurements	1/mon			Global		Parameter Oriented; Combined Satellites	H	L-02
405	Radiant Exitance, Albedo	1/mon			Global		Scanner Based; Combined Satellites	H	L-03
406	Radiant Exitance, Albedo	1/mon			Global		Non-scanner Based; Combined Satellites	H	L-04
407	Telemetry, Ephemeris Data	1/day			Global			L	L-05
408	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-06
409	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-07
410		1/mon			Global			M	L-08
411		1/day, 1/6day, 1/mon			Global			H	L-09
412					Global			H	L-10
413	Plage, Sunspot	1/day			Full Solar Disk			M	L-11
414		1/day			Full Solar Disk			M	L-12
415		1/day			Full Solar Disk			M	L-13
416		1/day			Full Solar Disk			M	L-14
417	Telemetry, Ephemeris Data	1/day			Global			L	L-15
418	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-16
419	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-17
420		1/mon			Global			M	L-18
421	Telemetry, Ephemeris Data				Global			L	L-19
422	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-20
423	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-21
424		1/mon			Global			M	L-22
425	Telemetry, Ephemeris Data							L	L-23
426	Radiances, Ephemeris data							L	L-24
427	NO2 Profiles	1/mon						M	L-25
428	Aerosol Profiles	1/mon						M	L-26
429	O3 Profiles	1/mon						M	L-27
430							New V0 Product	M	L-28
431	Telemetry, Ephemeris Data							L	L-29
432	Radiance, Ephemeris data							L	L-30
433	NO2 Profiles	Monthly						M	L-31
434	Aerosol Profiles	Monthly						M	L-32
435	O3 Profiles	1/mon						M	L-33
436	Total Water Vapor	Monthly						M	L-34
437							New V0 Product	M	L-35
438							New V0 Product	M	L-36
439	Telemetry, Meteorological Data							L	L-37
440	Aerosol Extinction Profiles, Tot. Extinction Ratio, Aerosol Number density							M	L-38
441	Wind Vectors						New V0 Product	M	L-39
442	Net Surface Radiation	1/mon					New V0 Product	M	L-40
443	Cloud Parameters				Global			M	L-41
444	Cloud Parameters	1/3hrs			Global		3 Hour Data	H	L-42
445	Cloud Parameters	1/mon			Global		Monthly Ave of Cl	M	L-43
446	Radiances		4 km		Global		Used in ERBE Processing	M	L-44

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
447	Visible & Ir Image Data	1	GOES	VISSR	NCDS	LaRC	Yes	NOAA	200.00	>200.				11/79-5/91
448	Image Data	1	Landsat	MSS, TM	NCDS	LaRC	Yes	EDC	15.00	>15.				1979-1988
449	Wisconsin Cirrus Data	1B	In-situ	FIRE	NCDS	LaRC	Yes	NCDS	1.20	3.00				10/01/86 - 11/02/86
450	Marine Stratocumulus Exp.	1B	In-situ	FIRE	NCDS	LaRC	Yes	NCDS	3.90	6.00				1987-
451	Kansas Exp.	1B	In-situ	FIRE	LaRC	LaRC		NCDS		TBD				10/91-11/91
452	Azores Exp.	1B	In-situ	FIRE	LaRC	LaRC		NCDS		TBD				6/92-7/92
453	Various	2,3	Aircraft	GTE	LaRC	LaRC		LaRC	TBD	TBD				
454	Polar Ozone AAOE/AASE					LaRC		TBD						
455	Stratospheric Aerosols		Mauna Loa			LaRC		TBD						
456	STORM3					LaRC		TBD						
457	CYCLES					LaRC		TBD						
458	Residual O3 - J. Fishman					LaRC		LaRC	0.10	0.10				
459	Surface Trace Gas Measurements		In-situ			LaRC		GMCC						
460	HITRAN Data Base					LaRC		AFGL	0.10	0.10				
461	Stratospheric Profiles		Balloon			LaRC		TBD						
462	Photometer Intensities Vs Time, TP		ASTP-A	SA	NSSDC	LaRC	Yes	U. Wyoming	0.04	0.04	MT	1	Tape	07/26/75-07/26/75
463	Radiance Archive Tape (RAT)	1	Nimbus 7	SAMS	NSSDC	LaRC	Yes	U. Oxford	7.84	7.84	MT	6	Tape	10/23/78-06/13/83
464	Gridded Temperature Tape (GRID-	3	Nimbus 7	SAMS	NSSDC	LaRC		LaRC	0.44	0.44	MT	4	Tape	12/24/78-06/09/83
465	Zonal Means N2O CH4 Tape (ZMT-G)	3	Nimbus 7	SAMS	NSSDC	LaRC	Yes		0.11	0.11	MT	1	Tape	01/01/79-12/30/81
466	Radiance Data Archive Tape (RDAT)	1	Nimbus 7	SAM II	NSSDC	LaRC	Yes		3.36	3.36	MT	8	Tape	11/01/78-10/31/85
467	Radiation Budget Master Archive Tape (MAT)	1	Nimbus 7	ERB	NSSDC	LaRC	Yes		48.36	48.30	MT	1156	Tape	11/16/78-11/02/87
468	Solar + Earth Flux Data TP(SEFDT)	1	Nimbus 7	ERB	NSSDC	LaRC			5.40	5.40	MT	94	Tape	11/01/78-12/31/89
469	Zonal Means Radn Tape (ZMT)	2	Nimbus 7	ERB	NSSDC	LaRC	Yes		0.32	0.32	MT	15	Tape	12/02/81-11/30/85
470	Sub Target Radiance (STRT)	1	Nimbus 7	ERB	NSSDC	LaRC			1.88	1.88	MT	47		11/16/78-01/30/80
471	Post MAT Calibration TP (DELMAT)	2	Nimbus 7	ERB	NSSDC	LaRC	Yes	LaRC	4.24	4.24	MT	77	Tape	11/01/78-11/05/87
472	Seasonal Avg. Radiation Budget(SAVER)		Nimbus 7	ERB	NSSDC	LaRC			0.68	0.68	MT	29		12/02/78-12/01/81
473	GARP (FGGE/ERB-M) Radiation Budget Parameters		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		12/02/78-11/29/79
474	GARP (FGGE/ERB-Z) Zonal Avg. Insolation		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		12/01/78-11/30/79
475	Matrix Monthly Avg Sumry TP(EMST)	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.22	0.22	MT	2	Tape	11/16/78-10/31/86
476	8+30D Avg WFOV Alb. OLR+NET RAD	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.11	0.11	MT	1	Tape	07/01/83-07/02/84
477	Scene Radiance Tape (SRT)	2	Nimbus 7	ERB	NSSDC	LaRC			4.29	4.29	MT	39	Tape	05/01/79-05/31/80
478	NFOV MAX Likelihood CLD EST (MLCE)	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.55	0.55	MT	5	Tape	05/01/79-05/30/80
479	NFOV Sort Into Angular Bin	3	Nimbus 7	ERB	NSSDC	LaRC		GSFC	0.11	0.11	MT	1		05/01/79-05/31/80
480	NFOV Matrix Tape		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		11/16/78-06/20/80
481	Tropospheric CO Mixing Ratio Tape		Shuttle	MAPS	NSSDC	LaRC			0.08	0.08	MT	2	Tape	11/14/81-11/14/81
482	Tropospheric CO & N2O Mixing Ratio Tape		Shuttle	ATMOS	NSSDC	LaRC			0.40	0.40	MT	10	Tape	10/05/84-10/13/84
483	Antenna Temperatures, Ta	1B	DMSP	SSM/I	MSFC	MSFC	Yes	Wentz	55.00	320.00	OD/Silo		McIDAS	7/87 - 9/94
484	Ocean Products	2?	DMSP	SSM/I	MSFC	MSFC	Yes	Wentz	12.50	25.00				7/87-9/94
485	Tb and Products	1,2?	DMSP	SSM/I	MSFC	MSFC	Yes	Wetnet	4.50	50.00				7/87-9/94
486	Spectral Analysis of Precipitable and Liquid water	TBD	DMSP	SSM/I	MSFC	MSFC		Robertson	0.10	0.10				TBD
487	Lightning Product	2	DMSP	OLS	MSFC	MSFC		NSIDC	0.10	0.10				1/92-9/94
488	Antenna Temperature (Ta)	1	DMSP	SSM/T, T2		TBD		TBD						1992-on
489	Infrared Images	1B	GOES	VISSR	MSFC	MSFC	Yes	Wetnet	2.00	4.00	MO/Silo			7/87 - 9/94
490	Infrared Data	1	Meteosat		MSFC	MSFC	Yes	Wetnet	0.70	3.00				1/90-9/94
491	Infrared Data	1?	GMS	VISSR	MSFC	MSFC		Wetnet	0.00	2.00				10/91-9/94
492	Tb and Products	0,1,2	NOAA	MSU	MSFC	MSFC	Yes	NOAA	16.00	20.00				1/79-9/94
493	Brightness Temperature (Tb)	1	Nimbus 7	SMMR	MSFC	MSFC	Yes	GSFC	13.00	13.00				12/81-5/84
494	LLP Lightning Ground Station	0-3	In-situ		MSFC	MSFC	Yes	MSFC	0.50	1.00				CY85-Present
495	Doppler Radar	0	In-situ		MSFC	MSFC	Yes	NCAR	92.00	92.00				6/86-7/86
496	Doppler Radar	0	In-situ		MSFC	MSFC	Yes	NCAR	TBD	TBD				TBD
497	NWS Radar Reflectivity, Rainfall	0-3	In-situ		MSFC	MSFC	No	NWS	0.00	30.00				4/91-Present

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
447	Radiances						Semi-Periodic	L	L-45
448	Radiances						Primarily for Field Exp.	M	L-46
449	Clouds, Humidity, Radiation Budget, Stability, Temperature, Wind	variable	30 - 70 km		Wisconsin FIRE Network			L	L-47
450								L	L-48
451								L	L-49
452								M	L-50
453							Tropospheric Chemistry	L	L-51
454								M	L-52
455								M	L-53
456								L	L-54
457								L	L-55
458								H	L-56
459								H	L-57
460								H	L-58
461								M	L-59
462	Photometer Intensities						75-066A-19B		L-60
463	Uncalibrated and Calibrated Radiance, Temp. profiles	2/day					78-098A-02A		L-61
464	Temperature	1/day	2.5x 10 deg	Variable	67.5 N - 50 S	1000 - 0.003 mb	78-098A-02B		L-62
465	CH4 and N2O Mixing Ratio		2.5 deg Lat.		67.5 N - 50 S	100 km	78-098A-02C		L-63
466	IR Radiances	2/day			64N-80-N; 64S-80S		78-098A-06A		L-64
467	Calibrated Radiances, Raw Counts	2/day	85 x 85 km		Global		78-098A-07A		L-65
468	Raw counts, Radiances, Recalib. Irradiance	2/day			Global		78-098A-07B		L-66
469	Insolation, OLR, Albedo, Net Radiation		4.5 deg Lat.		Global	Sfc	78-098A-07E		L-67
470							78-098A-07G		L-68
471	Calibrated Radiances	2/day	85 x 85 km		Global		78-098A-07H		L-69
472							78-098A-07I		L-70
473							78-098A-07J		L-71
474							78-098A-07K		L-72
475	Outgoing LW Radiation, Albedo, Net Radiation	1/mon	500 x 500 km		Global		78-098A-07O		L-73
476	Albedo, OLR, Net Radiation	1/8 day, 1/mon					78-098A-07P		L-74
477	SW, LW Calib. Radiance mean, BDRF, Solar Insolation	1/day	1.5 x 1.5 deg		Global		78-098A-07R		L-75
478		2/day					78-098A-07S		L-76
479							78-098A-07T		L-77
480							78-098A-07U		L-78
481	CO Mixing Ratio				38 N - 38 S	3 - 12 km	81-111A-04A		L-79
482	CO and N2O Volume Mixing Ratio		5 x 5 deg		57 N - 57 S	3 - 12 km	84-108A-03A		L-80
483			14 - 70 km		Global		Currently processed by Wentz	H	M-01
484			25 km		Global		Currently processed. by Wentz	H	M-02
485	Antenna Temperatures		25 km		Global		McIDAS format	H	M-03
486					Global			L	M-04
487	Lightning		2.4 km		Global			M	M-05
488					Global		It is not known if this data will be available	H	M-06
489	Radiances		16 km		Hemisphere			M	M-07
490	Radiances		5 km		Hemisphere		WetNet Data	M	M-08
491	Radiances		5 km		Hemisphere		WetNet Data	M	M-09
492	Temperature (anomalies)	1/mon	2.5x2.5 deg		Global	Low Troposphere		H	M-10
493	Brightness Temperature		18 - 136 km		Global			M	M-11
494	Lightning				Point		TN Valley only	M	M-12
495	Backscatter				Regional		COHMEX Tapes	M	M-13
496	Backscatter				Regional		CAPE Tapes	M	M-14
497	Radar Reflectivity, Rainfall							M	M-15

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
498	Vis/IR Data	1	Aircraft	MAMS	MSFC	MSFC	Yes	TBD	0.70	1.00				various
499	Brightness Temperature (Tb)	1	Aircraft	AMPR	MSFC	MSFC	Yes	TBD	0.20	0.50				7/91-8/91
500	Precipitation Index	3	In-situ			MSFC		Arkin						
501	Surface Rainage Obs.	3	In-situ			MSFC		Jaeger						
502	Surface and Ship Obs.	3	In-situ			MSFC		Lagates						1920-1980
503	Satellite and Surface Obs.	3	Multi			MSFC		Morrissey						
504	Surface Air Temperature	3	In-situ			MSFC		Hansen						
505	Surface Air Temperature	3	In-situ			MSFC		Jones, Wigley						1854-1990
506	Surface Max./Min. Temperature	1	In-situ			MSFC		Karl & McNab						
507	SST Based on Ship and Satellites	3	Multi			MSFC		Reynolds						
508	SST	3	Multi			MSFC		Folland						
509	River Discharge	2	In-situ			MSFC		Richey						
510	Runoff	2	In-situ			MSFC		Wood						
511	Wetlands	2	In-situ			MSFC		Moore						
512	Operational Linescan System (OLS) Imagery	1B	DMSP	OLS	NSIDC	NSIDC		AFGWC						1974
513	OLS Vis/IR Digital Data (2.7 km resolution)	1B	DMSP	OLS		NSIDC	No	AFGWC		300.00				1991-on
514	OLS Vis/IR Digital Data (0.6 km)	1B	DMSP	OLS		NSIDC		AFGWC		300.00				1991-
515	OLS Browse Data (100 km resolution)	3	DMSP	OLS		NSIDC	No	AFGWC		10.00				1991-on
516	Brightness Temperature	2	DMSP	SSM/I	NSIDC	NSIDC	Yes	NOAA	60.00	200.00	OD			1987-Present
517	Snow Water Equivalent (25 km)	3	DMSP	SSM/I		NSIDC		NSIDC		4.38				1987-
518	Sea Ice Conc., Type (25 km)	3	DMSP	SSM/I		NSIDC		NSIDC		24.53				1987-
519	Gridded Brightness Temp (25 km)	3	DMSP	SSM/I	NSIDC	NSIDC		NSIDC	7.01	12.26	CD			1987 -
520	Gridded Brightness Temp (12.5)	3	DMSP	SSM/I	NSIDC	NSIDC	Yes	NSIDC	11.24	19.67	CD			1987-Present
521	SSM/T Sounding Data Polar Subset	1B	DMSP	SSM/T		NSIDC		NSIDC		TBD				TBD
522	Geosat Exact Repeat Mission Land/Ice Geophysical Data	2	GEOSAT	ALT	NSIDC	NSIDC	Yes	USN, NOAA	3.50	3.50	MT			11/86-12/89
523	Brightness Temperature & Sea Ice Conc.	1B/2	Nimbus 5	ESMR	NSIDC	NSIDC	Yes	GSFC	0.30	0.30	MT			1973-1976
524	Gridded Brightness Temperatures	3	Nimbus 7	SMMR	NSIDC	NSIDC	Yes	NSIDC	0.66	0.66	CD			1978-1980
525	Sea Ice Conc., Type (25 km Grid)	3	Nimbus 7	SMMR		NSIDC		Gloersen		38.54				1978-1987
526	Gridded Brightness Temp. (25 km)	3	Nimbus 7	SMMR	NSIDC	NSIDC	Yes	Gloersen	30.92	30.92				1978-1987
527	Ice Surface Temperature (By Orbit)	2	NOAA	AVHRR		NSIDC				246.38				1992-1994
528	Ice Surface Temperature (Gridded)	3	NOAA	AVHRR		NSIDC				1.75				1992-1994
529	Ice Margin Ocean SSTs (By Orbit)	2	NOAA	AVHRR		NSIDC				TBD				1992-1994
530	N.H. Polar Gridded Subset (AVHRR 1.1 Km 2/Wk)	3	NOAA	AVHRR		NSIDC		NESDIS		6.55				1988-1993
531	TOVS Data, Polar Subset	1B	NOAA	TOVS		NSIDC		NOAA		TBD				TBD
532	NESDIS Snow Data	3	Multi	Multi	NSIDC	NSIDC		NOAA				1		1974-1980
533	Navy-NOAA Weekly Ice Concentration & Extent	3	In-situ		NSIDC	NSIDC	Yes	USN, NOAA	0.45	0.65	MT			1972-Present
534	Great Lakes Ice Charts (Aircraft/Shuttle)	3	Aircraft		NSIDC	NSIDC		NOAA			MF			1973-Present
535	Great Lakes Aerial Photos (Aircraft/Shuttle)	1B	In-situ		NSIDC	NSIDC		USAF						1963-1973
536	AIDJEX Underice Sonar Ice Profile	1B	In-situ		NSIDC	NSIDC	Yes	USN	0.01	0.01				1976, 4 days
537	Gridded Sea Ice Surf. Energy	4	Multi	Multi		NSIDC				1.75				1994-
538	Gridded Cloud Cover, Type, Height	3	Multi	Multi		NSIDC				1.75				1992 - 1994
539	Cloud Cover, Type, Height (Polar Regions, By Orbit)	2	Multi	Multi		NSIDC				246.38				1992-1994
540	MIZEX Data Set	2,3	In-situ	Multi	NSIDC	NSIDC		PLs	1.20	1.20				1983-1987
541	CEARX Data Set	2,3	In-situ	Multi	NSIDC	NSIDC	Yes		0.05	0.05				1988-1989
542	Rawindesonde Over Polar Regions	1B	In-situ			NSIDC				TBD				1945-
543	Meteorological Analysis Fields	3	In-situ			NSIDC				TBD				TBD
544	DIFAS Data Stream	2,3	In-situ			NSIDC				TBD				TBD
545	Meteorological Fields, Gridded	3	In-situ			NSIDC				TBD				TBD
546	ARDS Polar Ice Sounding & Geomagnetics	1B	In-situ		NSIDC	NSIDC	Yes	USN, SPRI	0.33	0.33	MT,MF			1977-1979
547	Arctic Ocean Drifting Buoy Data	1B	In-situ		NSIDC	NSIDC	Yes	R. Colony	0.21	0.42	MT			1979-Present
548	Arctic Ice Dynamics Joint Exp.(AIDJEX) Sonar Ice Profile	1B	In-situ		NSIDC	NSIDC	Yes	AIDJEX	0.01	0.01	MT			1975-1976
549	Southern Hemisphere Ice Limits	3	In-situ		NSIDC	NSIDC	Yes	U. Neb.	0.00	0.00	MT		Tape	1973-1978
550	Greenland Snow Pit & Core Stratigraphy Data	1B	In-situ		NSIDC	NSIDC		C. Benson			MF	74	N/A	1952-1955



## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
498	Radiances				Regional		COHMEX, FIFE, CaPE	L	M-16
499	Brightness Temperature				Regional		CaPE	L	M-17
500								M	M-18
501								M	M-19
502								H	M-20
503								M	M-21
504								M	M-22
505								M	M-23
506								M	M-24
507								H	M-25
508								M	M-26
509								H	M-27
510								H	M-28
511								M	M-29
512	Radiances						1.5 Million Film Transparencies	M	SI-01
513	Radiances		2.7km					H	SI-02
514	Radiances		0.6km				Under Development	H	SI-03
515			100km					M	SI-04
516	Brightness Temperature	2/day	70-14km		Global		Global Orbital Archive	H	SI-05
517	Snow Water Equivalent		25 km				Planned V0 Effort	M	SI-06
518	Sea Ice Conc., Type		25 km				Planned V0 Effort	M	SI-07
519	Brightness Temp		25 km					H	SI-08
520	Brightness Temp		12.5 km					H	SI-09
521	Temperature, Humidity Profiles		200km		Polar regions		Planned V0 Effort	H	SI-10
522								M	SI-11
523	Brightness Temperature, Sea Ice Conc.							H	SI-12
524	Brightness Temp		25 km				NSIDC Product. 1 CD-Rom	H	SI-13
525	Sea Ice Conc., Type		25 km				Planned V0 Effort	H	SI-14
526	Brightness Temp		25x25 km					H	SI-15
527	Ice Surface Temperature						Planned V0 Effort	M	SI-16
528	Ice Surface Temperature						Planned V0 Effort	H	SI-17
529	SST						Planned V0 Effort	M	SI-18
530	Radiances	2/wk	1 km		N. Hemisphere		Planned V0 Effort	H	SI-19
531							Planned V0 Effort	M	SI-20
532							Digitized, gridded ice charts(6250bpi)	M	SI-21
533	Ice Concentration, Ice Extent	1/wk					Assuming 150 MB of data for each 6250 bpi tape (3 tapes)	M	SI-22
534							37 microfiche, 1300 paper charts (letter size)	M	SI-23
535	Aerial Photos						50,000 Photos, 100 Mosaics	L	SI-24
536							USS Gurnard	L	SI-25
537	Sea Ice Surf. Energy Fluxes						Poles Model Output	M	SI-26
538							Planned V0 Effort	M	SI-27
539							Planned V0 Effort	M	SI-28
540					50 N - 90 N; 50 S - 90 S		Mixed Digital And Analog	M	SI-29
541								M	SI-30
542	Temperature, Pressure				Polar regions		Planned V0 Effort	M	SI-31
543							Planned V0 Effort (NMC, ECMWF)	H	SI-32
544							Planned V0 Effort	L	SI-33
545							Planned V0 Effort	H	SI-34
546							Mixed Digital And Analog	L	SI-35
547								H	SI-36
548							4 days of data	L	SI-37
549	Ice Boundary		5 deg					M	SI-38
550							74 microfiche	L	SI-39

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
551	NOAA/GLERL Rad Transfer Thru Freshwater Ice	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	Diskette			N/A
552	NOAA/GLERL Weekly Ice Thickness & Stratigraphy	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1965-1977
553	International Ice Patrol Iceberg Data (1960-Present)	1B	In-situ		NSIDC	NSIDC	Yes	USC	0.00	0.01	MT			1960-present
554	NMC/CAC Arctic & Antarctic Sea Ice (1973-1982)	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1973-1990
555	Arctic Drifting Station Data (1893-1973)	1B	In-situ		NSIDC	NSIDC	Yes	R. Colony	0.00	0.00	MT			1893-1973
556	Greenland (Dye-3) Ice Core Oxygen-18 vs. Depth Data	1B	In-situ		NSIDC	NSIDC	Yes	U. Copenhagen	0.00	0.00	Diskette			N/A
557	Historical Glacier Photo Collection/Index	1B	In-situ		NSIDC	NSIDC		USGS, NSIDC						1980-
558	Northern Hemisphere Sea Ice Concentrations (1956-1977)	2	In-situ		NSIDC	NSIDC	Yes	Walsh	0.00	0.01	MT			1956-1978
559	NOAA/GLERL Great Lakes Air Temp/Degree Days	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.07	0.07	MT, MF			1897-1983
560	NOAA/GLERL Great Lakes Ice Concentration Database	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.05	0.05				1960-1979
561	Great Lakes Surface Ice Reports	1B	In-situ		NSIDC	NSIDC	Yes	USCG, NOAA	0.00	0.00	MT			1961-1976
562	Sea Ice Drift: Bering Air-Sea_ice (1981-1982, 1983,1985,1987)	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.01	MT		Tape	1981-1983,1985,1987
563	Airborne Gamma Radiation Snow Surveys	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1980-Present
564	Canadian Snowfall and Snow Depth (1943-1982)	1B	In-situ		NSIDC	NSIDC	Yes	Walsh	0.00	0.00	MT			1943-1982
565	Great Lakes Daily Ice Observations (1955-Present)	1B	In-situ		NSIDC	NSIDC	Yes	NSIDC	0.00	0.01	MT			1955-present
566	Rand Corp Mean Monthly Global Snow Depth	2	In-situ		NSIDC	NSIDC	Yes	Rand Corp.	0.00	0.00	MT			
567	Arctic Sea Ice Limit (1901-1956)	3	In-situ		NSIDC	NSIDC	Yes	U.E. Anglia	0.01	0.01	MT			1901-1956
568	Ice Core Microparticle Analyses	3	In-situ		NSIDC	NSIDC	Yes	Thompson	0.00	0.00	MT	1	Tape	N/A
569	Bibliographic Data Base	N/A	In-situ		NSIDC	NSIDC	Yes	NSIDC	0.01	0.02				1978-Present
570	Sea Ice Parameters 37-GHz (PARM-30)	3	Nimbus 7	SMMR	NSSDC	NSIDC		GSFC	15.73	15.73	MT	391		10/29/78 - 10/29/86
571	Parameters, Sea-Ice, Snow & Ice (PARM-SS)	3	Nimbus 7	SMMR	NSSDC	NSIDC			9.72	9.72	MT	243		10/29/78 - 10/29/86
572	Mapped Parameters, Sea Ice + Snow (MAP-SS)	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	2.35	2.36	MT	59	Tape	10/30/78-10/25/83
573	GARP (FGGE/SMMR-30) Sea Ice Concentration	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.72	0.72	5.25" Floppy	15	ASCII	11/30/78-11/30/79
574	MIZEX Brightness Temperature Data	2	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.66	0.66	MT	6	Tape	11/27/83-04/29/84
575	MIZEX-W Sea Ice Concentration	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.11	0.11	MT	1	Tape	02/01/83-02/28/83
576	Colorado R Snow Parm Atlas Disk	2	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.65	0.65	MT	18	ASCII	12/05/78-04/21/86

## Appendix T: Current and Future Data Holdings of DAACs By Data Center

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
551								L	SI-40
552	Ice Thickness, Stratigraphy							L	SI-41
553								L	SI-42
554			1 x 2.5 deg.					M	SI-43
555								H	SI-44
556	Ive Core Oxygen, Ice Depth							M	SI-45
557	Glacier Photo						10,000 Photos, 35 Reels Microfilm	L	SI-46
558	Ice Concentrations		1 deg		N. Hemisphere			H	SI-47
559	Air Temperature				Great Lakes		also 25 reels of 35mm microfilm	L	SI-48
560	Ice Concentrations		5 x 5 km		Great Lakes			L	SI-49
561					Great Lakes		also 16 reels of 16mm microfilm	M	SI-50
562	Sea Ice				Bering Sea			M	SI-51
563			3 km		N. America Snow Regions			M	SI-52
564					Canada Snow Regions			M	SI-53
565					Great Lakes			M	SI-54
566	Snow Depth	1/mon	4 x 5 deg		Global			M	SI-55
567			1 deg		Circumpolar				SI-56
568	Ice Core Microparticle				4 cores			M	SI-57
569	Technical References							M	SI-58
570							78-098A-08C		SI-59
571							78-098A-08E		SI-60
572	Sea Ice, Ice Parameters	1/6 days, Mon	Variable PS Grid				78-098A-08F		SI-61
573							78-098A-08V		SI-62
574	Brightness Temp.	2/day	30 - 156 km				78-098A-08X		SI-63
575	Sea Ice Concentration		293 x 293 P. Stereo				78-098A-08b		SI-64
576	Polarization and Gradient Ratios	1/6 day	2 x 2 deg	N/A	32N - 46N ; 105W - 120W	N/A	78-098A-08c		SI-65



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# **Current and Future Data Holdings of DAACs by Platform**

Appendix U

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**



# Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
262	BUV Data on UA Tapes		AE-E	BUV	NSSDC	GSFC	Yes		0.16	0.16	MT	68	Tape	11/21/75-06/07/81
134	Aerosol, NO <sub>2</sub> , and O <sub>3</sub> Profiles (79/81)	3	AEM-2	SAGE I	NCDS	LaRC	Yes	LaRC	0.99		MT	9	CDF	02/21/79-11/18/81
425	Telemetry and Ephemeris	0	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	10.00	10.00				02/21/79-11/18/81
426	Merged Ephemeris & Radiance Data - MERDAT	1	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	5.70	5.70				02/21/79-11/18/81
427	Monthly NO <sub>2</sub> Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.20	0.20				02/21/79-11/18/81
428	Monthly Aerosol Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.40	0.40				02/21/79-11/18/81
429	Monthly O <sub>3</sub> Profile	2	AEM-2	SAGE I	NSSDC	LaRC	Yes	LaRC	0.20	0.20				02/21/79-11/18/81
430	Aerosol, NO <sub>2</sub> , O <sub>3</sub> Maps	3	AEM-2	SAGE I	NSSDC	LaRC	No	LaRC		TBD				02/21/79-11/18/81
438	Cloud Occurrence	3	AEM-2 & ERBS	SAGE I & SAGE II	NSSDC	LaRC	No			TBD				TBD
499	Brightness Temperature (Tb)	1	Aircraft	AMPR	MSFC	MSFC	Yes	TBD	0.20	0.50				7/91-8/91
36	Airborne NASA AVIRIS Data	1B	Aircraft	AVIRIS	EDC	EDC				300.00				1989 -On
3	High Altitude Aerial Photography	1	Aircraft	Camera	U. of Alaska	TBD		ASF						
46	USGS Photography	0	Aircraft	Film Camera	EDC	EDC	Yes							1950 -On
47	Other Photography	0	Aircraft	Film Camera	EDC	EDC	Yes							1939 -On
453	Various	2,3	Aircraft	GTE	LaRC	LaRC		LaRC	TBD	TBD				
34	Airborne NASA M2S Data	1B	Aircraft	M2S	EDC	EDC	Yes		4.00	4.00				1980s
498	Vis/IR Data	1	Aircraft	MAMS	MSFC	MSFC	Yes	TBD	0.70	1.00				various
243	Barnes MMR	0, 1	Aircraft	MMR	PLDS/ARC	EDC			TBD	TBD				TBD
247	Aircraft flight facility data sets	0, 1	Aircraft	N/A	PLDS/ARC	EDC			TBD	TBD				TBD
32	Airborne NASA NS-001 Data	1B	Aircraft	NS001	EDC	EDC	Yes		32.00	90.00				1987 -On
35	Airborne NASA OCI Data	1B	Aircraft	OCI	EDC	EDC	Yes		1.00	1.00				1980s
29	Airborne USGS SAR	1A	Aircraft	SAR	EDC	EDC	Yes		53.00	65.00				8/80-On
30	NASA Air SAR	1A	Aircraft	SAR	JPL	EDC		JPL						
250	Aircraft SAR	0, 1	Aircraft	SAR	PLDS/JPL	EDC			TBD	TBD				4/88-7/90
31	Airborne NASA TIMS Data	1B	Aircraft	TIMS	EDC	EDC	Yes		9.80	50.00				1987-On
33	Airborne NASA TMS Data	1B	Aircraft	TMS	EDC	EDC	Yes		24.00	24.00				1980s
234	Aerial Photos	N/A	Aircraft	Zeiss, Wild	PLDS/ARC	EDC	Yes	ARC	N/A	TBD	Photos	20-30,000	N/A	3/88-10/90
534	Great Lakes Ice Charts (Aircraft/Shuttle)	3	Aircraft		NSIDC	NSIDC		NOAA			MF			1973-Present
209	ASAS	0, 1	Aircraft	ASAS	PLDS/GSFC	EDC	Yes	GSFC		0.86	MT	38	Tape	7/11/87-08/17/87
237	OTTER-ASAS	0, 1	Aircraft	ASAS	PLDS/ARC	EDC	Yes		1.59	TBD	Tapes	70	Tape	6/90-8/90
210	NERDAS	N/A	Aircraft	Calibration, Navigation	PLDS/GSFC	EDC	Yes	GSFC	1.08	1.08	MT	48	Tape	
244	CASI	0, 1	Aircraft	CASI	PLDS/ARC	EDC			TBD	TBD				TBD
245	FLI	0, 1	Aircraft	FLI	PLDS/ARC	EDC			TBD	TBD				TBD
208	NS001 TMS	0, 1	Aircraft	NS001	PLDS/GSFC	EDC	Yes	TBD	6.76	6.76	MT	297	Tape	5/87-8/89
232	NS001 TMS	0	Aircraft	NS001	PLDS/ARC	EDC	Yes	TBD	4.06	TBD	MT	145	Tape	9/88-8/90
229	Parabola data sets	0, 1	Aircraft	Parabola	PLDS/GSFC	EDC	Yes	TBD	TBD	TBD				TBD
235	Airborne Sunphotometer	0	Aircraft	Photometers	PLDS/ARC	EDC	Yes	ARC	0.02	TBD	MT	1	Tape	6/87-8/89
207	TIMS	0, 1	Aircraft	TIMS	PLDS/GSFC	EDC		TBD	2.81	2.81	Tapes	125		1/87-8/89
236	C-130 TIMS Data	0	Aircraft	TIMS	PLDS/ARC	EDC	Yes	ARC	6.75		MT	300	Tape	9/1/88-8/15/90
248	TIMS	0, 1A/B	Aircraft	TIMS	PLDS/JPL	EDC			19.42	TBD	Tapes	863		8/82-7/89
238	OTTER-AVIRIS	0, 1	Aircraft (ER-2)	AVIRIS	PLDS/ARC	EDC	Yes		0.41	TBD	MT	18	Tape	3/90-10/90
254	AVIRIS	0, 1	Aircraft (ER-2)	AVIRIS	PLDS/JPL	EDC			TBD	TBD				TBD
233	Daedalus TMS	0	Aircraft (ER-2, U-2)	Daedalus	PLDS/ARC	EDC	Yes	TBD	2.10	TBD	MT	83	Tape	3/88-10/90
263	Thunderstorm Noise, Tape	1	ARIEL 3		NSSDC	GSFC	Yes	U.K.	2.12	2.12	MT	16	Tape	05/05/67-04/14/68
462	Photometer Intensities Vs Time, TP		ASTP-A	SA	NSSDC	LaRC	Yes	U. Wyoming	0.04	0.04	MT	1	Tape	07/26/75-07/26/75
48	VHRR IR Digital Image Data, Tape		ATS 6	VHRR	NSSDC	EDC			47.04	47.04	MT	796		06/17/74-08/20/74
181	Stratospheric Temperatures	3	Balloon	Radiosonde	NCDS	GSFC		BERLIN	0.01	0.01				Climatology
182	Monthly Radiosonde	2	Balloon	Radiosonde	NCDS	GSFC	Yes	NOAA	16.00	16.00				
461	Stratospheric Profiles		Balloon			LaRC		TBD						
487	Lightning Product	2	DMSP	OLS	MSFC	MSFC		NSIDC	0.10	0.10				1/92-9/94
512	Operational Linescan System (OLS) Imagery	1B	DMSP	OLS	NSIDC	NSIDC		AFGWC						1974
513	OLS Vis/IR Digital Data (2.7 km resolution)	1B	DMSP	OLS		NSIDC	No	AFGWC		300.00				1991-on
514	OLS Vis/IR Digital Data (0.6 km)	1B	DMSP	OLS		NSIDC		AFGWC		300.00				1991-
515	OLS Browse Data (100 km resolution)	3	DMSP	OLS		NSIDC	No	AFGWC		10.00				1991-on

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## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
262							75-107A-16A		G-204
134	Aerosols, Nitrogen Dioxide, Ozone	1/18 days	1 x 250 km	1 km <25 km; 5 km >25km	72N - 72S	Above Cloud Top	Only sunset data after 6/79	M	G-070
425	Telemetry, Ephemeris Data							L	L-23
426	Radiances, Ephemeris data							L	L-24
427	NO2 Profiles	1/mon						M	L-25
428	Aerosol Profiles	1/mon						M	L-26
429	O3 Profiles	1/mon						M	L-27
430							New V0 Product	M	L-28
438							New V0 Product	M	L-36
499	Brightness Temperature				Regional		CaPE	L	M-17
36								H	E-21
3	Radiances (Images)						53000 Frames on 9" film transparencies		A-03
46	Photos		Multiple		U.S.		3,581,000 Current Frames	L	E-31
47	Photos		Multiple		U.S.		3,193,000 Current Frames	L	E-32
453							Tropospheric Chemistry	L	L-51
34								L	E-19
498	Radiances				Regional		COHMEX, FIFE, CaPE	L	M-16
243							TBD	L	G-181
247							TBD	L	G-185
32								H	E-17
35								L	E-20
29							Photo Products( 3,261 Strips and 596 Mosaics)	L	E-14
30								L	E-15
250	Reflectance	N/A	10 m (approx.)		Atlantic & Pacific Oceans, N. America, Europe	Sfc	1083 Images - ordering supprtd	L	G-190
31								H	E-16
33								L	E-18
234	Scene Images	Variable	Variable	N/A	North America	Sfc	867 images	L	G-172
534							37 microfiche, 1300 paper charts (letter size)	M	SI-23
209					N. America			L	G-145
237	Radiances							L	G-175
210							Calculation tapes for NS001 TMS & TMS	L	G-146
244							TBD	L	G-182
245							TBD	L	G-183
208	Radiances							L	G-144
232	Radiances		12.2 m		Regional	Sfc - 3km		L	G-170
229							TBD	L	G-166
235	Optical Depth				North America	Atmosphere	on-line	L	G-173
207								L	G-143
236	Radiances						1995 Launch	L	G-174
248								L	G-188
238	Radiances							L	G-176
254	Radiances	N/A	20m	N/A	N. America		TBD	L	G-194
233	Vis, NIR Radiance	N/A	25 m, Variable	N/A	N. America	Sfc		L	G-171
263	Noise Intensities, Pulse Counts						67-042A-04A		G-205
462	Photometer Intensities						75-066A-19B		L-60
48	Calib. Radiances						74-039A-08C		E-33
181	Temperatures					Stratosphere	Van Loon/Labitsley	M	G-117
182	Temperatures, water vapor,							M	G-118
461								M	L-59
487	Lightning		2.4 km		Global			M	M-05
512	Radiances						1.5 Million Film Transparencies	M	SI-01
513	Radiances		2.7km					H	SI-02
514	Radiances		0.6km				Under Development	H	SI-03
515			100km					M	SI-04

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
372	Wentz Ocean Products	2	DMSP	SSM/I	JPL	JPL	Yes		4.00	8.00				7/87-12/90
374	Monthly and 5-Day Avg of Atlas Surface Wind Analysis Fields	3,4	DMSP	SSM/I	JPL	JPL	Yes		0.01	0.01				7/87-6/88
375	Wentz SSM/I Colocated with Geosat	2	DMSP	SSM/I	JPL	JPL			0.15	0.15				7/87 - 12/89
376	Emery Water Vapor Corrections	3	DMSP	SSM/I	JPL	JPL			0.05	0.05				7/15-8/16/87
483	Antenna Temperatures, Ta	1B	DMSP	SSM/I	MSFC	MSFC	Yes	Wentz	55.00	320.00	OD/Silo		McIDAS	7/87 - 9/94
484	Ocean Products	2?	DMSP	SSM/I	MSFC	MSFC	Yes	Wentz	12.50	25.00				7/87-9/94
485	Tb and Products	1,2?	DMSP	SSM/I	MSFC	MSFC	Yes	Wetnet	4.50	50.00				7/87-9/94
486	Spectral Analysis of Precipitable and Liquid water	TBD	DMSP	SSM/I	MSFC	MSFC		Robertson	0.10	0.10				TBD
516	Brightness Temperature	2	DMSP	SSM/I	NSIDC	NSIDC	Yes	NOAA	60.00	200.00	OD			1987-Present
517	Snow Water Equivalent (25 km)	3	DMSP	SSM/I		NSIDC		NSIDC		4.38				1987-
518	Sea Ice Conc., Type (25 km)	3	DMSP	SSM/I		NSIDC		NSIDC		24.53				1987-
519	Gridded Brightness Temp (25 km)	3	DMSP	SSM/I	NSIDC	NSIDC		NSIDC	7.01	12.26	CD			1987 -
520	Gridded Brightness Temp (12.5)	3	DMSP	SSM/I	NSIDC	NSIDC	Yes	NSIDC	11.24	19.67	CD			1987-Present
373	Atlas Surface Wind Analysis Fields	2,3,4	DMSP	SSM/I + In-situ	JPL	JPL	Yes		0.45	0.45				7/87-6/88
521	SSM/T Sounding Data Polar Subset	1B	DMSP	SSM/T		NSIDC		NSIDC		TBD				TBD
488	Antenna Temperature (Ta)	1	DMSP	SSM/T, T2		TBD		TBD						1992-on
264	Total Ozone + Calibrated Radiance		DMSP 5D/F1	MFR	NSSDC	GSFC			0.52	0.52	MT	13		03/25/77-07/23/77
265	MFR Total Ozone Grid Point Data	3	DMSP 5D/F1	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	03/25/77-07/23/77
270	Total Ozone + Calibrated Radiance		DMSP 5D/F2	MFR	NSSDC	GSFC			3.88	3.88	MT	97		07/13/77-02/16/80
271	MFR Total Ozone Grid Point Data	3	DMSP 5D/F2	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	07/13/77-02/16/80
266	Total Ozone + Calibrated Radiance		DMSP 5D/F3	MFR	NSSDC	GSFC			2.24	2.24	MT	56		07/23/78-02/05/80
267	MFR Total Ozone Grid Point Data	3	DMSP 5D/F3	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	07/23/78-02/05/80
268	Total Ozone - Calibrated Radiance		DMSP 5D/F4	MFR	NSSDC	GSFC			0.84	0.84	MT	21		06/17/79-02/06/80
269	MFR Total Ozone Grid Point Data	3	DMSP 5D/F4	MFR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	06/17/79-02/06/80
272	Raw 'State' and Loc. Data Tape	1	BOLE 1	UAWSR	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	08/27/71-07/04/72
142	Radiation Budget ERBE-S4	3	ERBS	ERBE	NCDS	LaRC	Yes	LaRC	3.20	6.00				1984-On
407	Telemetry & Ephemeris	0	ERBS	ERBE	LaRC	LaRC	Yes	LaRC	47.00	66.00				11/84-12/93
408	S8 - Processed Archival Tape	2	ERBS	ERBE	LaRC	LaRC	Yes		53.00	62.00				11/84-2/90
409	S2 - Solar Incidence	2	ERBS	ERBE	LaRC	LaRC	Yes		0.01	0.04				11/84-12/93
410	S7 - Medium/Wide POV	2	ERBS	ERBE	LaRC	LaRC			0.00	3.50				11/84-12/93
135	Aerosol, NO2, H2O and O3 Profiles (84/87)	3	ERBS	SAGE II	NCDS	LaRC	Yes	LaRC	1.10		MT	10	CDF	1984-Present
431	Telemetry and Ephemeris	0	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	27.00	39.00				10/84-12/93
432	Merged Ephemeris & Radiance Data - MERDAT	1	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	16.00	23.00				10/84-12/93
433	Monthly NO2 Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.10	0.20				10/84-12/93
434	Monthly Aerosol Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.50	1.10				10/84-12/93
435	Monthly O3 Profile	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.20	0.50				10/84-12/93
436	Monthly H2O	3	ERBS	SAGE II	NSSDC	LaRC	Yes	LaRC	0.00	0.60				10/84-12/93
437	Aerosol,NO2,O3,H2O Maps	3	ERBS	SAGE II	NSSDC	LaRC				TBD				10/84-12/93
403	S4 Monthly Averages	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.60	1.70				11/84-2/90
404	S4G Monthly Averages	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.40	1.90				11/84-2/90
405	S9 - Radiant Exitance and Albedo	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		4.50	13.60				11/84-2/90
406	S10 - Radiant Exitance and Albedo	3	ERBS, NOAA-9,11	ERBE	LaRC	LaRC	Yes		0.30	1.70				11/84-12/93
4	Signal Data	0	ERS-1	SAR	ASF	ASF		ASF		33,460.00				7/91 start
6	Full-Resolution Data	1B	ERS-1	SAR	ASF	ASF		ASF		9,314.00				7/91 start
7	Low-Resolution Data	1B	ERS-1	SAR	ASF	ASF	No	ASF		160.00				7/91 start
10	Geo-Coded Full Resolution	3	ERS-1, JERS-1	SAR	ASF	ASF		ASF		159.70				7/91 start
11	Geo-Coded Low Resolution	3	ERS-1, JERS-1	SAR	ASF	ASF		ASF		65.50				7/91 start

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
372	Wind Speed	1/6 hrs	25 km		Ocean	Sfc	25 km Cells of Wind Speed	H	J-14
374	Surface Wind	1/5 day, 1/mon	2 x 2.5 deg		Ocean	Sfc	Temporal avg.; same as above	M	J-16
375					Ocean			M	J-17
376	Water Vapor	1/wk			Ocean		Gridded Water Vapor	M	J-18
483			14 - 70 km		Global		Currently processed by Wentz	H	M-01
484			25 km		Global		Currently processed, by Wentz	H	M-02
485	Antenna Temperatures		25 km		Global		McIDAS format	H	M-03
486					Global			L	M-04
516	Brightness Temperature	2/day	70-14km		Global		Global Orbital Archive	H	SI-05
517	Snow Water Equivalent		25 km				Planned V0 Effort	M	SI-06
518	Sea Ice Conc., Type		25 km				Planned V0 Effort	M	SI-07
519	Brightness Temp		25 km					H	SI-08
520	Brightness Temp		12.5 km					H	SI-09
373	Surface Wind	1/6 hrs	2x2.5 deg		Ocean	Sfc	Atlas	M	J-15
521	Temperature, Humidity Profiles		200km		Polar regions		Planned V0 Effort	H	SI-10
488					Global		It is not known if this data will be available	H	M-06
264							76-091A-02A		G-206
265	Ozone Gridded Data	1/day	1.5 x 2.5 deg				76-091A-02B		G-207
270							77-044A-02A		G-212
271	Ozone Gridded Data	1/day	1.5 x 2.5 deg				77-044A-02B		G-213
266							78-042A-02A		G-208
267	Ozone Gridded Data	1/day	1.5 x 2.5 deg				78-042A-02B		G-209
268							79-050A-02A		G-210
269	Ozone Gridded Data	1/day	1.5 x 2.5 deg				79-050A-02B		G-211
272	Temperature, Pressure, Locations				30 S - 60 S	Near 200 mb	71-071A-01A		G-214
142	Radiation Budget				Global			H	G-078
407	Telemetry, Ephemeris Data	1/day			Global			L	L-05
408	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-06
409	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-07
410		1/mon			Global			M	L-08
135	Aerosols, Ozone, Humidity, Nitrogen Dioxide	1/18 days	1 x 250 km	1 km <25 km; 5 km >25km	80N - 80S	Above Cloud Top		M	G-071
431	Telemetry, Ephemeris Data							L	L-29
432	Radiance, Ephemeris data							L	L-30
433	NO2 Profiles	Monthly						M	L-31
434	Aerosol Profiles	Monthly						M	L-32
435	O3 Profiles	1/mon						M	L-33
436	Total Water Vapor	Monthly						M	L-34
437							New V0 Product	M	L-35
403	Average Radiometric measurements	1/mon			Global		Regionally Oriented; Combined Satellites	H	L-01
404	Average Radiometric measurements	1/mon			Global		Parameter Oriented; Combined Satellites	H	L-02
405	Radiant Exitance, Albedo	1/mon			Global		Scanner Based; Combined Satellites	H	L-03
406	Radiant Exitance, Albedo	1/mon			Global		Non-scanner Based; Combined Satellites	H	L-04
4	Counts		10m		ASF Station Mask			H	A-04
6	Backscatter		30 m (12.5 m spacing)		ASF Station Mask (100 x 100 km area)		145770 Frames in 1994	H	A-06
7	Backscatter		100 m		ASF Station Mask		8 by 8 ave. of full res. prod.	H	A-07
10	Backscatter		30 m				TBD Frames. Full res. prod. produced only on request	M	A-10
11	Backscatter		100 m				31925 Frames. Low res. prod. produced only on request	M	A-11

C-3

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
12	Ice Motion Vector	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF		0.37				7/91 start
13	Ice Type Classification	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF		52.40				7/91 start
14	Ice Type Fraction	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF		1.24				7/91 start
15	Wave Product	2	ERS-1, JERS-1	SAR	ASF	ASF		ASF		0.03				7/91 start
274	All Sensor Temp, Tape		EXPLORER 7	All Sensors	NSSDC	GSFC	Yes	U. of Wis.	0.08	0.08	MT	2	Tape	10/19/59-06/04/60
273	White Sensor Temp (Night), Tape		EXPLORER 7	Bolometer	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	11/15/59-05/24/60
379	Geophysical Data Record	1B	GEOS 3	ALT	NODS/JPL	JPL	Yes		0.17	0.17				4/24/75-12/1/78
395	Altimetry CD-ROM	2,3	GEOS 3, SEASAT, GEOSAT	Altimeter	JPL	JPL				6.80				
380	Ocean Height	2	GEOSAT	ALT	JPL	JPL				6.00				11/86-9/89
381	Ocean Wind Speed	2	GEOSAT	ALT	JPL	JPL				1.00				11/86-9/89
382	Zlotnicki-Fu Interp Along Track	2	GEOSAT	ALT	JPL	JPL	Yes		0.70	0.70				11/86-9/89
522	Geosat Exact Repeat Mission Land/Ice Geophysical Data	2	GEOSAT	ALT	NSIDC	NSIDC	Yes	USN, NOAA	3.50	3.50	MT			11/86-12/89
383	Co-located Geosat and Buoy Data	2	GEOSAT	ALT, Buoys	JPL	JPL			0.05	0.05				11/86-9/89
491	Infrared Data	1?	GMS	VISSR	MSFC	MSFC		Wetnet	0.00	2.00				10/91-9/94
149	ISCCP C1 Cloud data (3 hr averages)	3	GOES	AVHRR	NCDS	GSFC	Yes	GISS	11.10	25.00	MT	101	CDF	7/83-11/86, 10/87
150	ISCCP C2 Cloud data (hourly & monthly)	3	GOES	AVHRR	NCDS	GSFC	Yes	GISS	1.00	3.00	MT	4	CDF	7/83-11/86, Ongoing thru 1995
153	GPCP Precipitation Estimates	3	GOES	VAS	NCDS	GSFC	Yes	NOAA	0.01	0.10	Disk		CDF	1/86-12/89
160	FIRE ETO VISSR Radiances	1B	GOES	VISSR	NCDS	GSFC	Yes	NOAA	50.00	200.00	MT	256	CDF	1986-Present
221	VISSR Radiances	1	GOES	VISSR	PLDS/GSFC	EDC	Yes	TBD	1.07	3.00	MT	76	Tape	1987
447	Visible & Ir Image Data	1	GOES	VISSR	NCDS	LaRC	Yes	NOAA	200.00	>200.				11/79-5/91
489	Infrared Images	1B	GOES	VISSR	MSFC	MSFC	Yes	Wetnet	2.00	4.00	MO/Silo			7/87 - 9/94
151	ISCCP Stage B3 Cloud data	2	GOES & NOAA	VAS & AVHRR	NCDS	GSFC	Yes	GISS	149.60	200.00	MT	935	Tape	7/83-12/90
152	ISCCP CX Radiances (WI & CA FIRE Areas)	1,2,3	GOES & NOAA	VAS & AVHRR	NCDS	GSFC	Yes	GISS	2.20	5.00	MT	20	Tape	9/30/86 - 11/30/86; 6/1/87 - 7/31/87
49	EHT - VISSR Digital Data Tapes	1	GOES 1	VISSR	NSSDC	EDC	Yes	NOAA	5.06	5.06	MT	46	Tape	04/16/76-05/29/77
50	VISSR IR/VIS AOIPS Image Tapes	1	GOES 1	VISSR	NSSDC	EDC	Yes		59.73	59.73	MT	543	Tape	07/19/75-06/16/78
51	IDAMS Visible + IR Image Data, TP	2	GOES 1	VISSR	NSSDC	EDC			0.44	0.44	MT	4	Tape	01/26/76-02/02/76
52	AOIPS IR + Visible Image Data	1	GOES 2	VISSR	NSSDC	EDC	Yes	NOAA	38.61	38.61	MT	351	AOIPS	12/07/77-03/05/78
53	AOIPS IR + Visible Image Data	1	GOES 3	VISSR	NSSDC	EDC	Yes	NOAA	6.82	6.82	MT	62	AOIPS	06/16/78-05/02/79
54	Image Data on Mag Tape	1	HCMM	HCMR	NSSDC	EDC			12.16	12.16	MT	104	Tape	05/11/78-12/06/79
55	Day/Night Registered Data	1	HCMM	HCMR	NSSDC	EDC	Yes	GSFC	12.40	12.40	MT	102	Tape	07/16/78-06/17/79
495	Doppler Radar	0	In-situ		MSFC	MSFC	Yes	NCAR	92.00	92.00				6/86-7/86
176	CAC Sea Surface Temperatures	3	In-situ	Analyses	NCDS	GSFC	Yes	NOAA (CAC)	0.04	1.03	MT	2	CDF	1/70-present
177	Climate Research Unit Temp. Dev.	3	In-situ	Analyses	NCDS	GSFC	Yes	Jones	0.02	0.02				1851-1990
179	Soviet Cloud Climatology	3	In-situ	Analyses	NCDS	GSFC	No	TBD	0.11	0.11	MT	1	CDF	
189	Levinus Climatologies	4	In-situ	Analyses	NCDS	GSFC	Yes	Levinus, NOAA	0.55	0.55	Disk/MT	5	CDF	1/1900-12/1978
166	River Discharge Rate	3	In-situ	Current Meter	NCDS	GSFC	Yes	UNESCO	0.01	0.01	Disk		CDF	1807-1972
449	Wisconsin Cirrus Data	1B	In-situ	FIRE	NCDS	LaRC	Yes	NCDS	1.20	3.00				10/01/86 - 11/02/86
450	Marine Stratocumulus Exp.	1B	In-situ	FIRE	NCDS	LaRC	Yes	NCDS	3.90	6.00				1987-
451	Kansas Exp.	1B	In-situ	FIRE	LaRC	LaRC		NCDS		TBD				10/91-11/91
452	Azores Exp.	1B	In-situ	FIRE	LaRC	LaRC		NCDS		TBD				6/92-7/92
252	FTIR spectra	0, 1	In-situ	FTIR	PLDS/JPL	EDC	Yes		0.00	TBD				5/1986-6/1989
180	CDIAC's Trends Data	2	In-situ	Gas Monitors	NCDS	GSFC		CDIAC	0.00	0.01				1945-1991
119	Global Positioning System	1	In-situ	GPS	CDDIS	GSFC	Yes	Crustal Dynamics	6.88	136.75				1986-On

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
12	Ice Motion Vector		5 km x 5 km		Polar Ocean (100 x 100 km area)		12770 Frames	H	A-12
13	Ice Type Classification		100 m		Polar Ocean (100 x 100 km area)		25540 Frames	H	A-13
14	Ice Type Fraction		5 km x 5 km		Polar Ocean (100 x 100 km area)		1277 Frames	H	A-14
15	Wave Direction, Wave Length		6 km		Polar Ocean		1277 Frames	H	A-15
274	Radiance temp.						59-009A-01B		G-216
273	Temperature						59-009A-01A		G-215
379					Global			M	J-21
395					Ocean		Combine Geos-3, Seasat, Geosat	M	J-37
380	Wave Height				Ocean	Sfc	GEM-T2 Orbit;w/ SSM/I Correction	M	J-22
381	Wind Speed				Ocean	Sfc	Correction for Wave Age	M	J-23
382					Regional		Selected Periods	M	J-24
522								M	SI-11
383						Sfc		M	J-25
491	Radiances		5 km		Hemisphere		WetNet Data	M	M-09
149	Clouds, Optical Depth, Ozone, Pressure, Reflectance,	1/3 hr	250x250 km		Global	Atmosphere		H	G-085
150	Clouds, Optical Depth, Ozone, Pressure, Reflectance, Temperature, Total Precipitation	hourly, monthly	250x250 km		Global	Atmosphere		M	G-086
153	Precipitation	1/5 day	2.5x2.5 deg		40N - 40S			M	G-089
160	Radiances		0.9 km for Vis; 8 km for IR		Global			L	G-096
221	Radiances							L	G-157
447	Radiances						Semi-Periodic	L	L-45
489	Radiances		16 km		Hemisphere			M	M-07
151	Clouds, Radiance	1/12 hr	24 km		Global			M	G-087
152	Radiances				Wisconsin FIRE Network, California Coastal area			M	G-088
49	Vis and IR radiances	2/day	0.9 - 8 km				75-100A-01A		E-34
50	Radiances						75-100A-01D		E-35
51	Radiances						75-100A-01E		E-36
52	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		77-048A-01A		E-37
53	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		78-062A-01C		E-38
54	Radiances		500 - 600m		Regional		78-041A-01B		E-39
55	IR Images	2/day	300 km				78-041A-01D		E-40
495	Backscatter				Regional		COHMEX Tapes	M	M-13
176	Sea Surface Temperature	mon	2x2 deg		40 S - 60 N	Sfc		H	G-112
177								M	G-113
179	Clouds Climatology		5x10 deg		Global (85N - 85 S)			L	G-115
189	Temperature, Salinity, Dissolved Oxygen, Mixing Depth, Specific Volume (Hydrography)	mon/seas/year	1x1 deg; 5x5 deg		Global			M	G-125
166	River Flowrate	1/mon, 1/yr			Africa, S. America, Asia, Europe, Oceania, N. America (w/o U.S.)	Sfc		M	G-102
449	Clouds, Humidity, Radiation Budget, Stability, Temperature, Wind	variable	30 - 70 km		Wisconsin FIRE Network			L	L-47
450								L	L-48
451								L	L-49
452								M	L-50
252	Reflectance				Regional		109 Samples (6KB/sample)	L	G-192
180								L	G-116
119	Position coordinates							L	G-055

# Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
120	Baseline Station positions, Earth Orientation	2	In-situ	GPS	CDDIS	GSFC		Crustal Dynamics	0.00	5.53				1991-On
121	Lunar Laser Ranging	1	In-situ	LLR	CDDIS	GSFC	Yes	Crustal Dynamics	5.50	10.00				1969-On
178	GALE Data	1,2,3	In-situ	Multi	NCDS	GSFC	Yes	Multiple	0.01	0.01	CD	1	CDF	1/86-4/86
186	U.S. Climate Summaries	2	In-situ	Multi	NCDS	GSFC	Yes	NOAA	2.40	2.80				1850-On
188	Permanent Ship Observations	2	In-situ	Multi	NCDS	GSFC	Yes	TBD	0.06	0.30				1845-1987
227	Global soil particle size properties	0, 1	In-situ	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
228	Zobler world soil data file	0, 1	In-situ	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
540	MIZEX Data Set	2,3	In-situ	Multi	NSIDC	NSIDC		PIs	1.20	1.20				1983-1987
541	CEARSX Data Set	2,3	In-situ	Multi	NSIDC	NSIDC	Yes		0.05	0.05				1988-1989
37	USGS DEM	3	In-situ	N/A	EDC	EDC			1.00	1.00				
38	USGS DLG	3	In-situ	N/A	EDC	EDC	Yes		<1	<1				
39	Re. World Bank II	3	In-situ	N/A	EDC	EDC	Yes		<1	<1				
40	DMA DTED	3	In-situ	N/A	EDC	EDC				16.00				
41	DMA Digital Chart of the World	3	In-situ	N/A	EDC	EDC				26.00				
42	Derived DEMs	3	In-situ	N/A	EDC	EDC	Yes		<1	TBD				
43	Earth Science Data (NURE)	3	In-situ	N/A	EDC	EDC	Yes		125.00	125.00				1974-1980
185	U.S. Hourly & 15 min Precipitation	2	In-situ	Rain Gauge	NCDS	GSFC	Yes	NCDC	1.80	2.10				1850-On
240	Radiometer	1	In-situ	SE590	PLDS/ARC	EDC	Yes		1.12	TBD		49	Tape	8/90-12/90
242	SE590/393 data sets	0, 1	In-situ	SE590/393	PLDS/ARC	EDC			TBD	TBD				TBD
122	Satellite Laser Ranging	1	In-situ	SLR	CDDIS	GSFC	Yes	Crustal Dynamics	132.00	223.25				1975-On
123	Baseline Station positions, Earth Orientation	2	In-situ	SLR	CDDIS	GSFC	Yes	Crustal Dynamics	5.52	11.03				1976-On
220	Optical Thickness	1	In-situ	Spectrophot.	PLDS/GSFC	EDC	Yes	TBD	0.01	0.05				1988
239	Field Sunphotometer	1	In-situ	Spectrophotometer	PLDS/ARC	EDC			0.00	TBD				2/90-10/90
124	Very Long Baseline Interferometry	1	In-situ	VLBI	CDDIS	GSFC	Yes	Crustal Dynamics	22.00	55.00				1979-On
125	Baseline Station positions, Earth Orientation	2	In-situ	VLBI	CDDIS	GSFC	Yes	Crustal Dynamics	4.45	11.03				1979-On
163	TOGA/NODC Sea Level Height	1B	In-situ		NCDS	GSFC	Yes	NODC	0.06	0.10	MT	1	CDF	1/57-12/89
164	World Monthly Surface Station Data	3	In-situ		NCDS	GSFC	Yes	NOAA / NCAR	0.10	0.10	MT	1	CDF	1/1731-12/1989
165	GISS Global Surface Coverage	3	In-situ			GSFC		GISS						
167	NGDS Solar Activities Indices	1B	In-situ		NCDS	GSFC	Yes	NGDC	0.00	0.00	MT	1	CDF	12/68-8/82
168	Baseline Surface Radiation	2	In-situ		NCDS	GSFC	Yes		0.00	1.00				4/92
169	FIRE Kamms (April '91 thru '92)	1B	In-situ		NCDS	GSFC	No		0.00	50.00				10/91-11/91
170	FIRE Azores (Jan '92 thru Dec '92)	1B	In-situ		NCDS	GSFC	No		0.00	75.00				6/92
171	Mauna Loa Carbon Dioxide	3	In-situ		NCDS	GSFC	Yes		0.00	0.00	Disk		CDF	1/58-12/88
172	Wisconsin FIRE Cirrus Data	1B	In-situ		NCDS	GSFC	Yes		2.10	3.00	MT, Diskette	19, 4	CDF	10/01/86 - 11/02/86
173	FIRE Marine Stratocumulus Experiment	1B	In-situ		NCDS	GSFC	Yes		3.90	6.00	MT	36	CDF	6/30/87 - 07/19/87
174	Angell's Global Temperature Deviations	3	In-situ		NCDS	GSFC	Yes	NOAA	0.00	0.00	Disk			1/58-11/90
175	COADS Monthly Summary Trimmed Data	3	In-situ		NCDS	GSFC	Yes	NCAR	0.55	0.73	MT	5	CDF	1/46-12/89
187	East Anglia (Jones) Temperature Deviations	3	In-situ		NCDS	GSFC	Yes	Jones	0.02	0.02	Disk		CDF	1/1851-12/1990
211	Autometeorological Station Reports	1B	In-situ		PLDS/GSFC	EDC	Yes	GSFC	1.87	5.60	MT	83	Tape	5/1/87-10/4/87
251	Geological Samples		In-situ		PLDS/JPL	EDC	Yes	JPL						2/25/86-7/6/89
459	Surface Trace Gas Measurements		In-situ			LaRC		GMCC						
494	LIP Lightening Ground Station	0-3	In-situ		MSFC	MSFC	Yes	MSFC	0.50	1.00				CY85-Present
496	Doppler Radar	0	In-situ		MSFC	MSFC	Yes	NCAR	TBD	TBD				TBD
497	NWS Radar Reflectivity, Rainfall	0-3	In-situ		MSFC	MSFC	No	NWS	0.00	30.00				4/91-Present
500	Precipitation Index	3	In-situ			MSFC		Arkin						
501	Surface Rainage Obs.	3	In-situ			MSFC		Jaeger						
502	Surface and Ship Obs.	3	In-situ			MSFC		Lagates						1920-1980
504	Surface Air Temperature	3	In-situ			MSFC		Hansen						
505	Surface Air Temperature	3	In-situ			MSFC		Jones, Wigley						1854-1990
506	Surface Max./Min. Temperature	1	In-situ			MSFC		Karl & McNab						
509	River Discharge	2	In-situ			MSFC		Richey						
510	Runoff	2	In-situ			MSFC		Wood						
511	Wetlands	2	In-situ			MSFC		Moore						

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
120	Station Coordinates		cm					L	G-056
121								L	G-057
178	Sea Surface Temperature, Pressure, Wind, Precipitation	Varies			25-60 N and 40-90 W (Ocean)			L	G-114
186	Climate Data				U.S.			M	G-122
188								M	G-124
227	soil particle size						TBD	L	G-164
228							TBD	L	G-165
540					50 N - 90 N; 50 S - 90 S		Mixed Digital And Analog	M	SI-29
541								M	SI-30
37	Digital Elevations Model Data		1 x 2 deg		U.S.		1:250,000 (1 by 2 Deg. US)	H	E-22
38					U.S.		1:2,000,000 U.S. Coverage	M	E-23
39			Multiple		Global			M	E-24
40			1x1 deg		Sub Global			H	E-25
41			Multiple		Global			H	E-26
42	Surface Elevations		Multiple		Global			H	E-27
43			Multiple		U.S.			L	E-28
185	Precipitation	1/15min, 1/hr			U.S.			M	G-121
240	Radiances							L	G-178
242							TBD	L	G-180
122								L	G-058
123	Station Coordinates		cm					L	G-059
220	Optical thickness						on-line	L	G-156
239							on-line	L	G-177
124								L	G-060
125	Station Coordinates		cm					L	G-061
163	Sea Level Height	1/hr, 1/day, 1/mon			Pacific	Sfc		M	G-099
164	Temperature, Precipitation, Pressure, Humidity (after 1961)	1/mon	In situ		Global	Sfc		H	G-100
165			1 deg		Global			M	G-101
167	Plage, Sunspot	2/ Day (clear day)	1x1 deg (solar lat/long)		full Solar Disk			M	G-103
168								M	G-104
169					Local			L	G-105
170					Local			M	G-106
171	Carbon Dioxide		point		19.28 N, 155.38 W			H	G-107
172	Clouds, Humidity, Radiation Budget, Stability, Temperature, Wind	variable	30 - 70 km		Wisconsin FIRE Network			L	G-108
173	Clouds, Humidity, Temperature, wind	variable			29N- 34N to 119W - 125W			L	G-109
174	Temperature (Deviations)	seas	15 deg lat		Global (zonal)	Sfc-Stratos	COADS derived	M	G-110
175	Wind, Temperature, Clouds, Heat Flux, Humidity, Pressure, SST	monthly	2x2 deg		Global (ocean)			H	G-111
187	Temperature (Deviations)	mon	5x10 deg		Global	Sfc	COADS Derived	H	G-123
211								L	G-147
251							379 Samples	L	G-191
459								H	L-57
494	Lightning				Point		TN Valley only	M	M-12
496	Backscatter				Regional		CaPE Tapes	M	M-14
497	Radar Reflectivity, Rainfall							M	M-15
500								M	M-18
501								M	M-19
502								H	M-20
504								M	M-22
505								M	M-23
506								M	M-24
509								H	M-27
510								H	M-28
511								M	M-29

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
533	Navy-NOAA Weekly Ice Concentration & Extent	3	In-situ		NSIDC	NSIDC	Yes	USN, NOAA	0.45	0.65	MT			1972-Present
535	Great Lakes Aerial Photos (Aircraft/Shuttle)	1B	In-situ		NSIDC	NSIDC		USAF						1963-1973
536	AIDJEX Underice Sonar Ice Profile	1B	In-situ		NSIDC	NSIDC	Yes	USN	0.01	0.01				1976, 4 days
542	Rawindsonde Over Polar Regions	1B	In-situ			NSIDC				TBD				1945-
543	Meteorological Analysis Fields	3	In-situ			NSIDC				TBD				TBD
544	DIFAS Data Stream	2,3	In-situ			NSIDC				TBD				TBD
545	Meteorological Fields, Gridded	3	In-situ			NSIDC				TBD				TBD
546	ARDS Polar Ice Sounding & Geomagnetics	1B	In-situ		NSIDC	NSIDC	Yes	USN, SPRI	0.33	0.33	MT,MF			1977-1979
547	Arctic Ocean Drifting Buoy Data	1B	In-situ		NSIDC	NSIDC	Yes	R. Colony	0.21	0.42	MT			1979-Present
548	Arctic Ice Dynamics Joint Exp.(AIDJEX) Sonar Ice Profile	1B	In-situ		NSIDC	NSIDC	Yes	AIDJEX	0.01	0.01	MT			1975-1976
549	Southern Hemisphere Ice Limits	3	In-situ		NSIDC	NSIDC	Yes	U. Neb.	0.00	0.00	MT		Tape	1973-1978
550	Greenland Snow Pit & Core Stratigraphy Data	1B	In-situ		NSIDC	NSIDC		C. Benson			MF	74	N/A	1952-1955
551	NOAA/GLERL Rad Transfer Thru Freshwater Ice	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	Diskette			N/A
552	NOAA/GLERL Weekly Ice Thickness & Stratigraphy	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1965-1977
553	International Ice Patrol Iceberg Data (1960-Present)	1B	In-situ		NSIDC	NSIDC	Yes	USC	0.00	0.01	MT			1960-present
554	NMC/CAC Arctic & Antarctic Sea Ice (1973-1982)	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1973-1990
555	Arctic Drifting Station Data (1893-1973)	1B	In-situ		NSIDC	NSIDC	Yes	R. Colony	0.00	0.00	MT			1893-1973
556	Greenland (Dye-3) Ice Core Oxygen-18 vs. Depth Data	1B	In-situ		NSIDC	NSIDC	Yes	U. Copenhagen	0.00	0.00	Diskette			N/A
557	Historical Glacier Photo Collection/Index	1B	In-situ		NSIDC	NSIDC		USGS, NSIDC						1980-
558	Northern Hemisphere Sea Ice Concentrations (1956-1977)	2	In-situ		NSIDC	NSIDC	Yes	Walsh	0.00	0.01	MT			1956-1978
559	NOAA/GLERL Great Lakes Air Temp/Degree Days	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.07	0.07	MT, MF			1897-1983
560	NOAA/GLERL Great Lakes Ice Concentration Database	2	In-situ		NSIDC	NSIDC	Yes	NOAA	0.05	0.05				1960-1979
561	Great Lakes Surface Ice Reports	1B	In-situ		NSIDC	NSIDC	Yes	USCG, NOAA	0.00	0.00	MT			1961-1976
562	Sea Ice Drift: Bering Air-Sea ice (1981-1982, 1983,1985,1987)	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.01	MT		Tape	1981-1983,1985,1987
563	Airborne Gamma Radiation Snow Surveys	1B	In-situ		NSIDC	NSIDC	Yes	NOAA	0.00	0.00	MT			1980-Present
564	Canadian Snowfall and Snow Depth (1943-1982)	1B	In-situ		NSIDC	NSIDC	Yes	Walsh	0.00	0.00	MT			1943-1982
565	Great Lakes Daily Ice Observations (1955-Present)	1B	In-situ		NSIDC	NSIDC	Yes	NSIDC	0.00	0.01	MT			1955-present
566	Rand Corp Mean Monthly Global Snow Depth	2	In-situ		NSIDC	NSIDC	Yes	Rand Corp.	0.00	0.00	MT			
567	Arctic Sea Ice Limit (1901-1956)	3	In-situ		NSIDC	NSIDC	Yes	U.E.Anglin	0.01	0.01	MT			1901-1956
568	Ice Core Microparticle Analyses	3	In-situ		NSIDC	NSIDC	Yes	Thompson	0.00	0.00	MT	1	Tape	N/A
569	Bibliographic Data Base	N/A	In-situ		NSIDC	NSIDC	Yes	NSIDC	0.01	0.02				1978-Present
27	Digital Optical and IR Data	1	JERS-1	OPS		EDC		Japan						
5	Signal Data	0	JERS-1	SAR	ASF	ASF		ASF		4,491.20				2/92 start
8	Full-Resolution Data	1B	JERS-1	SAR	ASF	ASF		ASF		3,198.70				2/92 start
9	Low-Resolution Data	1B	JERS-1	SAR	ASF	ASF	No	ASF		54.90				2/92 start
226	MSS land change history	0,1	Landsat	MSS	PLDS/GSFC	EDC	No	TBD	TBD	TBD				TBD
1	Raw Image Data	1	Landsat	MSS, TM	U. of Alaska	TBD	Yes	NASA, EDC, U. of Alaska			Film			1972-On
44	Film Products	1	Landsat	MSS, TM	EDC	EDC		EDC						1972-on
448	Image Data	1	Landsat	MSS, TM	NCDS	LaRC	Yes	EDC	15.00	>15.				1979-1988
20	Federally Owned Landsat Data	1B	Landsat	MSS, TM	EDC	EDC	Yes	GSFC	216.00	216.00				1972-1985
16	MSS Digital Data (on WBVT)	0	Landsat 1-3	MSS	EDC	EDC	Yes	GSFC	9,500.00	9,500.00				1972-78
17	MSS Digital Data (on CCT-X)	1B	Landsat 1-3	MSS	EDC	EDC	Yes	GSFC	1,305.00	1,305.00				1972-1978
212	RBV & MSS Films	1B	Landsat 3-4	RBV/MSS	PLDS/GSFC	EDC	Yes	GSFC			Film	1785000 images	N/A	1983-1991
18	MSS Digital Data (on HDT)	1B	Landsat 3-5	MSS	EDC	EDC	Yes	GSFC	11,400.00	12,460.00				1979-On
213	MSS digital	1B	Landsat 4-5	MSS	PLDS/GSFC	EDC	Yes	GSFC	2.70	2.70	MT	120	Tape	1987
19	TM Digital Data	1B	Landsat 4-5	TM	EDC	EDC	Yes		40,500.00	47,850.00				7/82-On



## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
533	Ice Concentration, Ice Extent	1/wk					Assuming 150 MB of data for each 6250 bpi tape (3 tapes)	M	SI-22
535	Aerial Photos						50,000 Photos, 100 Mosaics	L	SI-24
536							USS Gurnard	L	SI-25
542	Temperature, Pressure				Polar regions		Planned V0 Effort	M	SI-31
543							Planned V0 Effort (NMC, ECMWF)	H	SI-32
544							Planned V0 Effort	L	SI-33
545							Planned V0 Effort	H	SI-34
546							Mixed Digital And Analog	L	SI-35
547								H	SI-36
548							4 days of data	L	SI-37
549	Ice Boundary		5 deg					M	SI-38
550							74 microfiche	L	SI-39
551								L	SI-40
552	Ice Thickness, Stratigraphy							L	SI-41
553								L	SI-42
554			1 x 2.5 deg.					M	SI-43
555								H	SI-44
556	Ive Core Oxygen, Ice Depth							M	SI-45
557	Glacier Photo						10,000 Photos, 35 Reels Microfilm	L	SI-46
558	Ice Concentrations		1 deg		N. Hemisphere			H	SI-47
559	Air Temperature				Great Lakes		also 25 reels of 35mm microfilm	L	SI-48
560	Ice Concentrations		5 x 5 km		Great Lakes			L	SI-49
561					Great Lakes		also 16 reels of 16mm microfilm	M	SI-50
562	Sea Ice				Bering Sea			M	SI-51
563			3 km		N. America Snow Regions			M	SI-52
564					Canada Snow Regions			M	SI-53
565					Great Lakes			M	SI-54
566	Snow Depth	1/mon	4 x 5 deg		Global			M	SI-55
567			1 deg		Circumpolar				SI-56
568	Ice Core Microparticle				4 cores			M	SI-57
569	Technical References							M	SI-58
27	Radiances						Selected JERS OPS scenes	H	E-12
5	Backscatter		10 m		ASF Station Mask			H	A-05
8	Backscatter		30 m (12.5 m spacing)		ASF Station Mask (100 x 100 km area)		51100 Frames	H	A-08
9	Backscatter		100 m		ASF Station Mask		8 by 8 ave. of full res. prod.	M	A-09
226	Land Change						TBD	L	G-163
1	Radiances (Images)		80m		Alaska	Sfc	14304 Frames on photographic media	M	A-01
44			Multiple		Global			M	E-29
448	Radiances						Primarily for Field Exp.	M	L-46
20	Radiances		30 to 90 m				Prior to 9/17/85	H	E-05
16	Radiances	1/18 days	79 m		Global	Sfc	Only Photo Products Available( Digital Data not Accessible	M	E-01
17	Radiances	1/18 days	79 m		Global	Sfc	Digital and Photo Products	H	E-02
212	Photo						FNOC Corrections for GEOSAT	L	G-148
18	Radiances	1/18 days	79 m		Global	Sfc	Digital and Photo Products (Distribution Restrictions Apply)	H	E-03
213	Radiances	1/16 days	76-234 m		Global	Sfc		M	G-149
19	Radiances		30 or 60 m				Subj to Commercial Restrctns	H	E-04

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
214	TM Data	1B	Landsat 5-6	TM	PLDS/GSFC	EDC	Yes	GSFC	52.84	68.34	MT	1023		8/21/82-10/27/87
455	Stratospheric Aerosols		Mauna Loa			LaRC		TBD						
129	Raw Instrument Data (RUF)	1	METEO 3	TOMS 2		GSFC	No	GSFC		17.00				8/91 - on
130	Full Resolution Data (HDTOMS)	2	METEO 3	TOMS 2		GSFC	No	GSFC		12.00				8/91 - on
131	Gridded Data	3	METEO 3	TOMS 2		GSFC	No	GSFC		0.20				8/91 - on
490	Infrared Data	1	Meteosat		MSFC	MSFC	Yes	Wetnet	0.70	3.00				1/90-9/94
190	NCAR Trenberth Wind Stress Climatologies	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.08	0.08	MT	1	CDF	1898-1986
191	NMC Grid Point Data Set	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.08	0.08	CD, Disk		CDF	1/46-12/85
192	NMC Wind Data	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.44	0.44	MT	4	CDF	7/76-6/86
193	Pacific Ocean Pseudo Wind Stress	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.02	0.02	MT	1	CDF	1/61-11/88
194	Lean-Foukal Monthly Mean Solar Flux	4	Model	Analyses	NCDS	GSFC	Yes	NMC	0.00	0.00	Disk		CDF	1/54-12/84
195	ECMWF Analysis Fields (Surface & 14 levels) 2.5°	4	Model	Analyses	NCDS	GSFC	Yes	ECMWF	3.00	6.00				1980-On
196	Australian Meteorological Data	4	Model	Analyses	NCDS	GSFC	No	Australian		5.00				
197	NMC History Data	4	Model	Analyses	NCDS	GSFC	No	NMC	455.68	800.00				7/89
198	Hsiung Mean Surface Energy	4	Model	Analyses	NCDS	GSFC	Yes	Hsiung	0.00	0.00	Diskette		CDF	1/46 - 12/79
199	Max Plank Institute Heat Fluxes	4	Model	Analyses	NCDS	GSFC	Yes	MPI	0.02	0.02	MT	2	CDF	1/50-12/79
201	FGGB III-B Data - Reanalysis from ECMWF	4	Model	Analyses	NCDS	GSFC	Yes	NOAA	3.00	3.00	MT	21	CDF	1/79-3/79,5/79-7/79
202	FNOC Analysis Fields	4	Model	Analyses	NCDS	GSFC	Yes	FNOC	5.60	7.10	MT	52	CDF	1/73-present
203	Hellerman Wind Stress	4	Model	Analyses	NCDS	GSFC	Yes	Hellerman	0.00	0.00	Disk		CDF	1870-1976
204	Indian Ocean Pseudo Wind Stress (2 deg Grid)	4	Model	Analyses	NCDS	GSFC	Yes	FSU	0.01	0.01	MT	1	CDF	1/77-5/86
241	Model output	4	Model	N/A	PLDS/ARC	EDC			0.09	TBD	MT	4	Tape	1/90
249	DEM	4	Model	N/A	PLDS/JPL	EDC	Yes	JPL	1.50		MT	250	Tape	
205	Warren's Cloud Climatology	4	Model		NCDS	GSFC	Yes	NCAR	0.00	0.01				Climatology
200	FGGB II-B Restructured Data	4	Multi	Analyses	NCDS	GSFC	Yes	NOAA	2.63	2.63	MT			12/1978-11/1979
183	ERICA	2,3	Multi	Multi	NCDS	GSFC	Yes	Multiple	0.60	0.60				12/1988-02/1989
206	FIFE gridded data	0,1,2	Multi	Multi	PLDS/GSFC	EDC	Yes	FIFE		21.66				5/1987 - 9/1989
219	GRSFE version 1	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	5.40	11.00	CD-ROM	9		1989
222	Superior National Forest	1,2	Multi	Multi	PLDS/GSFC	EDC		TBD	1.50	1.50				1972-1990
223	BRDF data set collection	0,1	Multi	Multi	PLDS/GSFC	EDC	Yes	TBD	TBD	TBD				TBD
224	U of NH data set collection	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
230	FED MAC data sets	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
231	MAC Hydro data sets	0,1	Multi	Multi	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
246	Alaskan methane data sets	0,1	Multi	Multi	PLDS/ARC	EDC			TBD	TBD				TBD
255	Remote Sensing of Volcanoes	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
256	Mojave field experiments	0,1	Multi	Multi	PLDS/JPL	EDC	Yes		TBD	TBD				TBD
257	Radar measurements of canopies	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
258	Central Andes Gravity data sets	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
259	Geophysics of North America	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
260	Soils survey data sets	0,1	Multi	Multi	PLDS/JPL	EDC			TBD	TBD				TBD
532	NESDIS Snow Data	3	Multi	Multi	NSIDC	NSIDC		NOAA				1		1974-1980
537	Gridded Sea Ice Surf. Energy	4	Multi	Multi		NSIDC				1.75				1994-
538	Gridded Cloud Cover, Type, Height	3	Multi	Multi		NSIDC				1.75				1992 - 1994
539	Cloud Cover, Type, Height (Polar Regions, By Orbit)	2	Multi	Multi		NSIDC				246.38				1992-1994
442	Monthly Surface Radiation Budget Maps	3	Multi	SRB		LaRC		LaRC		0.10				7/1983-6/1991
394	TOGA CD-ROM	2,3,4	Multi		JPL	JPL				6.80				1985-1995
503	Satellite and Surface Obs.	3	Multi			MSFC		Morrissey						
507	SST Based on Ship and Satellites	3	Multi			MSFC		Reynolds						
508	SST	3	Multi			MSFC		Folland						
253	Beckman spectra	0,1	N/A	Beckman UV Spectrometer	PLDS/JPL	EDC	Yes		0.00	TBD				2/1986-7/1989
275	Nimbus HRIR Met. Radiation Tapes	2	Nimbus 1	HRIR	NSSDC	GSFC	Yes	GSFC	9.52	9.52	MT	238	Tape	08/29/64-09/22/64
276	Nimbus HRIR Met. Radiation Tapes	2	Nimbus 2	HRIR	NSSDC	GSFC	Yes	GSFC	70.40	70.40	MT	1739	Tape	05/15/66-11/15/66

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
214							CONUS only	M	G-150
455								M	L-53
129	Raw Counts , Radiances	14/day	50 km		Global		Data Format Same as NIMBUS 7 TOMS	L	G-065
130	Reflectivity, Total Ozone	1/14 days	50 km		Global			H	G-066
131	Reflectivity, Total Ozone	1/14 days	1 x 1.25 deg @ low lat and 1 x 5 deg @ high lat		Global		Gridded Data	H	G-067
490	Radiances		5 km		Hemisphere		WetNet Data	M	M-08
190	Wind Stress, Wind Stress Curl, Sverdrup Transport	1/mon	2.5x2.5 deg		Global	Sfc		M	G-126
191	Temperature, Height, Humidity, Wind, vertical Motion	daily/mon	47x51 Octagonal grid		N. Hemisphere			H	G-127
192	Wind		2.5x2.5 deg		Global			H	G-128
193	TAU X, Y, Wind U, V, and Derived TAU X, Y		2x2 deg		Global	Sfc		M	G-129
194	Solar Flux	1/mon			full Solar Disk			M	G-130
195			2.5 deg	Sfc & 14 levels	Global			H	G-131
196								M	G-132
197					Global			H	G-133
198	Surface Energy Fluxes	monthly	5x5 deg		Global			L	G-134
199	Heat Flux, Precipitation, Temperature, Humidity, Clouds, Wind	monthly	2x2 deg		Global			L	G-135
201	Height, Humidity, Pressure, Temperature, Vertical Motion, Wind	1/6 hr	1.875x1.875 deg	19 levels	Global	1000-10 mb		L	G-137
202	Height, Humidity, Pressure, Sea Surface Temperature, Temperature, Wind, Mixing Depth	12 hr	2.5x2.5 deg (see comments)		Global	Sfc-Stratos	Also available on 63x63 and 125x125 north polar stereographic grids.	H	G-138
203	Wind Stress	mon	2x2 deg		Global	Sfc		L	G-139
204	TAU X, Y, Wind U, V, and Derived TAU X, Y		2x2 deg		Indian Ocean			L	G-140
241								L	G-179
249	Surface Elevations	N/A	25-80 m		N. America, Hawaii	Sfc	250 DEM's (6MB/DEM)	H	G-189
205	Cloud Climatology							M	G-141
200		1/6 hr	500x500 km	7 levels	Global	Sfc-Stratos		M	G-136
183									G-119
206							on-line data	L	G-142
219								L	G-155
222							on-line	L	G-158
223	Bi-Directional Reflectance						TBD	L	G-160
224							TBD	L	G-161
230							TBD	L	G-167
231							TBD	L	G-168
246	Methane data						TBD	L	G-184
255							TBD	L	G-195
256							TBD	L	G-196
257							TBD	L	G-197
258							TBD	L	G-198
259							TBD	L	G-199
260							TBD	L	G-200
532							Digitized, gridded ice charts(6250bpi)	M	SI-21
537	Sea Ice Surf. Energy Fluxes						Poles Model Output	M	SI-26
538							Planned V0 Effort	M	SI-27
539							Planned V0 Effort	M	SI-28
442	Net Surface Radiation	1/mon					New V0 Product	M	L-40
394							Completed by 1997	M	J-36
503								M	M-21
507								H	M-25
508								M	M-26
253	Reflectance	N/A	0.01%?		Regional		379 Samples ( 3.3 KB/sample)	L	G-193
275	Radiation Data						64-052A-03A		G-217
276	Radiation Data						66-040A-03A		G-218

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
277	Nimbus MRIR Met. Radiation Tapes	2	Nimbus 2	MRIR	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	8	Tape	05/15/66-07/28/66
278	HRIR Meteor. Radiation Tapes		Nimbus 3	HRIR	NSSDC	GSFC			40.60	40.60	MT	1015	Tape	04/17/69-03/21/70
280	MRIR Meteor. Radiation Tapes		Nimbus 3	MRIR	NSSDC	GSFC	Yes		14.72	14.72	MT	390	Tape	04/15/69-02/04/70
279	SIRS Radiance Tapes		Nimbus 3	SIRS	NSSDC	GSFC			0.66	0.66	MT	6	Tape	04/14/69-06/19/70
133	Nimbus-4 BUV CPOZ (Albedo, Ozone)	3	Nimbus 4	BUV	NCDS	GSFC	Yes	GSFC	0.21	0.21	MT	4	CDF	4/10/70-5/6/77
285	BUV Radiance Values (U-Tape)		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.36	0.36	MT	9	Tape	04/10/70-05/06/77
286	Primary Data Base Tapes (PDB)	1	Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	7.52	7.52	MT	188	Tape	04/09/70-05/06/77
287	BUV Dark Current Study MSTR Data		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.12	0.12	MT	3	Tape	04/10/70-12/16/71
288	BUV Dark Current Study Work Data		Nimbus 4	BUV	NSSDC	GSFC	Yes	GSFC	0.12	0.12	MT	3	Tape	04/10/70-12/16/71
289	Zonal Means Tape (ZMT)	2	Nimbus 4	BUV	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	04/10/70-05/02/77
290	Total + Profile O3 TP (HDBUV)	1	Nimbus 4	BUV	NSSDC	GSFC			1.65	1.65	MT	15		04/10/70-05/06/77
283	IRIS Radiance Tapes	1	Nimbus 4	IRIS	NSSDC	GSFC	Yes	GSFC	4.78	8.72	MT	29	Tape	04/09/70-01/30/71
291	SCR Radiance Tapes	1	Nimbus 4	SCR	NSSDC	GSFC			0.65	0.56	MT	14	Tape	7/20/70 - 11/30/73
284	SIRS Radiance Tapes		Nimbus 4	SIRS	NSSDC	GSFC			0.49	0.49	MT	3	Tape	04/08/70-04/08/71
281	11.5-Micron Cloud Radiance Tape	1	Nimbus 4	THIR	NSSDC	GSFC	Yes	GSFC	51.72	51.72	MT	1313	Tape	04/10/70-02/13/71
282	6.7-Micron Cloud Radiance Tape	1	Nimbus 4	THIR	NSSDC	GSFC	Yes	GSFC	41.28	41.28	MT	1034	Tape	04/14/70-03/25/71
295	ESMR Calib Brght Temp (CBT) Tapes	1	Nimbus 5	ESMR	NSSDC	GSFC	Yes	GSFC	11.33	11.33	MT	103	Tape	12/16/72-05/16/77
523	Brightness Temperature & Sea Ice Conc.	1B/2	Nimbus 5	ESMR	NSIDC	NSIDC	Yes	GSFC	0.30	0.30	MT			1973-1976
292	Radiance Observations On Tape	1	Nimbus 5	ITPR	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	02/14/75-09/30/76
294	NEMS Output Tapes (NEMSOT)	1	Nimbus 5	NEMS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/18/72-10/31/73
56	SFC Composition Mapping Rad Tapes	1	Nimbus 5	SCMR	NSSDC	EDC			1.80	1.80	MT	45	Tape	12/11/72-12/30/72
293	SCR Radiance Tapes	1	Nimbus 5	SCR	NSSDC	GSFC			0.52	0.52	MT	13	Tape	12/13/72-12/26/74
296	11.5 Micron Cloud Radiance Tape	1	Nimbus 5	THIR	NSSDC	GSFC	Yes	GSFC	5.72	5.72	MT	52	Tape	12/19/72-02/07/74
297	6.7 Micron Cloud Radiance Tape	1	Nimbus 5	THIR	NSSDC	GSFC	Yes	GSFC	41.20	41.20	MT	646	Tape	12/19/72-02/07/74
298	HIRS/SCAMS Radiation, Temperature, & Humidity	2	Nimbus 6	HIRS / SCAMS	NSSDC	GSFC			29.48	29.48	MT	269	Tape	08/17/75-03/04/76
300	HIRS/SCAMS Radiation, Temperature, & Humidity	2	Nimbus 6	HIRS / SCAMS	NSSDC	GSFC			10.72	10.72	MT	269	Tape	08/17/75-03/04/76
299	Inversion Temperature & Ozone Profile Archival Tape (IPAT)	3	Nimbus 6	LRIR	NSSDC	GSFC	Yes	GSFC	0.28	0.28	MT	7	Tape	06/25/75-01/06/76
402	SCAMS Output TP of H2O + TMP (SOTA)	2	Nimbus 6	SCAMS	NSSDC	JPL	Yes	GSFC	0.92	0.92	MT	23	Tape	06/15/75-05/29/76
301	11.5-Micron Cloud Radiance Tape	1	Nimbus 6	THIR	NSSDC	GSFC	Yes	GSFC	0.48	0.48	MT	12	Tape	06/18/75-09/14/76
302	6.7-Micron Cloud Radiance Tape	1	Nimbus 6	THIR	NSSDC	GSFC	Yes	GSFC	0.44	0.44	MT	111	Tape	06/18/75-05/06/77
80	High Resolution Raw Data	1	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	675.00	675.00				11/78 - 6/86
81	Resampled Raw Data	1A	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	38.00	38.00				11/78 - 6/86
82	Geophysical Parameters	2	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	37.00	37.00				11/78 - 6/86
83	Gridded Composites	3	NIMBUS 7	CZCS	GSFC	GSFC	Yes	GSFC	7.00	7.00				11/78 - 6/86
138	Nimbus-7 ERB MATRIX Tapes	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	1.90	1.90	MT	18	CDF	11/78-10/87
139	Nimbus-7 ERB Seasonal Tapes	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.02	0.02	MT			12/78-2/86
140	Solar Irradiance	1B	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.00	0.00	Disk		CDF	11/78-present
411	ERB MATRIX Tape	3	Nimbus 7	ERB	NCDS	LaRC		LaRC	1.90	1.90				11/78-11/87
412	ERB Seasonal Average	3	Nimbus 7	ERB	NCDS	LaRC		LaRC	0.20	0.20				12/78-3/86
413	ERB Solar Analysis Tape	3	Nimbus 7	ERB	NCDS	GSFC	Yes	GSFC	0.00	0.00	MT	1	CDF	11/16/78-3/30/86
414	ERB Solar Irradiance	2	Nimbus 7	ERB	NCDS	LaRC		LaRC						11/78-7/89
467	Radiation Budget Master Archive Tape (MAT)	1	Nimbus 7	ERB	NSSDC	LaRC	Yes		48.36	48.30	MT	1156	Tape	11/16/78-11/02/87
468	Solar + Earth Flux Data TP(SEFDT)	1	Nimbus 7	ERB	NSSDC	LaRC			5.40	5.40	MT	94	Tape	11/01/78-12/31/89

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
277	Radiation Data						66-040A-04A		G-219
278	Day and Night Radiation Values	1/day					69-037A-02C		G-220
280	Radiances						69-037A-05B		G-222
279	Radiances						69-037A-04A		G-221
133	Albedo, Ozone, Ozone profile	1/14days	200x200 km	8 km(>25 km); 15 km (<25 km)	Global	100 - 0.3 mb		M	G-069
285	UV Radiances (.25-.34						70-025A-05B		G-227
286	Raw Counts						70-025A-05E		G-228
287	Solar Magnetic Parameters, Pulse counts, Analog Data						70-025A-05H		G-229
288	Solar Magnetic Parameters, Pulse counts, Analog Data (filtered)						70-025A-05I		G-230
289	Tot. Ozone, Mixing Ratio, Reflectivity	1/day, 1/wk, 1/mon, 1/season	10 deg Lat.		80 N - 80 S	100- 0.3 mb	70-025A-05O		G-231
290							70-025A-05Q		G-232
283	Calib. Radiances						70-025A-03A		G-225
291	Calib. Radiance		25 km				70-025A-10A		G-233
284	Radiances						70-025A-04A		G-226
281	Brightness Temp. (11.5 micron) Data	14/day	7.7 km		Global		70-025A-02D		G-223
282	Brightness Temp. (6.7 micron) Data	14/day	22.6 km		Global		70-025A-02E		G-224
295	Calibrated Brightness Temp. (19.35 GHz)	2/day	25 - 160 km				72-097A-04A		G-237
523	Brightness Temperature, Sea Ice Conc.							H	SI-12
292	IR Radiances						72-097A-01A		G-234
294	Sfc Reflectance, Water Vapor, Liquid Water, Thickness, Temp.	2/day		Pressure Levels	Global		72-097A-03A		G-236
56	Calib. Radiance, Brightness Temp.		660 x 660 m		80 N - 80 S	Sfc	72-097A-05A		E-41
293	Calib. Radiance		25 km				72-097A-02A		G-235
296	Brightness Temp. (11.5 micron) Data	14/day	8.2 km		Global		72-097A-08C		G-238
297	Brightness Temp. (6.7 micron) Data	14/day	22.5 km		Global		72-097A-08D		G-239
298	Temp, Humidity Profiles, Calib. Radiances, Sfc Albedo, Cloud parameters	2/day	300 km	Variable	Global	1000 - 1 mb	75-052A-02B		G-240
300	Temp, Humidity Profiles, Calib. Radiances, Sfc Albedo, Cloud parameters				Global	1000 - 1 mb	75-052A-10C		G-242
299	Temp., O3 Conc. Profiles		4 deg	Pressure level	84 N - 64 S	1000 - 0.1 mb	75-052A-04A		G-241
402	Brightness Temp., Water Amt., Cloud Water Content, Temp., Mean Layer Temp.		145 - 330 km	Pressure levels	80 N - 80 S	1000 - 100 mb	75-052A-10A		J-44
301	Brightness Temp. (11.5 micron) Data	14/day	8.2 km		Global		75-052A-12C		G-243
302	Brightness Temp. (6.7 micron) Data	14/day	22.5 km		Global		75-052A-12D		G-244
80	Radiances	1/day	1 km		Ocean (10% per day)	Sfc	Full resolution data on optical disk	H	G-016
81	Radiances	1/day	4 km		Ocean (10% per day)	Sfc	Every 4th pixel and scan line	H	G-017
82	Pigment Conc., Diffuse Attenu. Coef., Water Leaving radiances, Aerosol Radiances	1/day	4 km		Ocean (10% per day)	Sfc		H	G-018
83	Pigment Conc., Diffuse Attenu. Coef., Water Leaving radiances, Aerosol Radiances	1/day, 1/wk, 1/mon	20 km		Ocean (50% per mon)	Sfc		H	G-019
138	Radiation Budget	1/day, 1/6days, 1/mon	500x500 km		Global			H	G-074
139		1/mon	500x500 km		Global			H	G-075
140	Solar Irradiance	1/day			Full Solar Disk			M	G-076
411		1/day, 1/6day, 1/mon			Global			H	L-09
412					Global			H	L-10
413	Plage, Sunspot	1/day			Full Solar Disk			M	L-11
414		1/day			Full Solar Disk			M	L-12
467	Calibrated Radiances, Raw Counts	2/day	85 x 85 km		Global		78-098A-07A		L-65
468	Raw counts, Radiances, Recalib. Irradiance	2/day			Global		78-098A-07B		L-66

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
469	Zonal Means Radio Tape (ZMT)	2	Nimbus 7	ERB	NSSDC	LaRC	Yes		0.32	0.32	MT	15	Tape	12/02/81-11/30/85
470	Sub Target Radiance (STRT)	1	Nimbus 7	ERB	NSSDC	LaRC			1.88	1.88	MT	47		11/16/78-01/30/80
471	Post MAT Calibration TP (DELMAT)	2	Nimbus 7	ERB	NSSDC	LaRC	Yes	LaRC	4.24	4.24	MT	77	Tape	11/01/78-11/05/87
472	Seasonal Avg. Radiation Budget(SAVER)		Nimbus 7	ERB	NSSDC	LaRC			0.68	0.68	MT	29		12/02/78-12/01/81
473	GARP (FGGE/ERB-M) Radiation Budget Parameters		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		12/02/78-11/29/79
474	GARP (FGGE/ERB-Z) Zonal Avg. Insolation		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		12/01/78-11/30/79
475	Matrix Monthly Avg Sumry TP(EMST)	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.22	0.22	MT	2	Tape	11/16/78-10/31/86
476	8+30D Avg WFOV Alb. OLR+NET RAD	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.11	0.11	MT	1	Tape	07/01/83-07/02/84
477	Scene Radiance Tape (SRT)	2	Nimbus 7	ERB	NSSDC	LaRC			4.29	4.29	MT	39	Tape	05/01/79-05/31/80
478	NFOV MAX Likelihood CLD EST (MLCE)	3	Nimbus 7	ERB	NSSDC	LaRC	Yes	GSFC	0.55	0.55	MT	5	Tape	05/01/79-05/30/80
479	NFOV Sort Into Angular Bin	3	Nimbus 7	ERB	NSSDC	LaRC		GSFC	0.11	0.11	MT	1		05/01/79-05/31/80
480	NFOV Matrix Tape		Nimbus 7	ERB	NSSDC	LaRC			0.04	0.04	MT	1		11/16/78-06/20/80
136	LIMS Map Archive Tapes (LAMAT)	3	Nimbus 7	LIMS	NCDS	GSFC	Yes	LaRC	0.15	0.20	MT	9	CDF	10/25/78-5/28/79
303	TEMP+MIX Ratio Profil TP(LAIPAT)	3	Nimbus 7	LIMS	NSSDC	GSFC	Yes	GSFC	1.44	1.44	MT	36	Tape	10/25/78-05/29/79
304	Radiance Archival Tape (RAT)	1	Nimbus 7	LIMS	NSSDC	GSFC	Yes	LaRC	8.20	8.20	MT	205	Tape	10/25/78-05/30/79
305	Radiance Profil Tape (Profile-R)	2	Nimbus 7	LIMS	NSSDC	GSFC	Yes	LaRC	0.32	0.32	MT	8	Tape	10/25/78-05/30/79
306	90-D Temp MIX RAT HT Maps(LASMAT)	3	Nimbus 7	LIMS	NSSDC	GSFC	Yes	GSFC	0.04	0.04	MT	1	Tape	10/25/78-05/29/79
137	Nimbus-7 BANAT (Aerosols)	3	Nimbus 7	SAM II	NCDS	GSFC	Yes	LaRC	4.20	4.20	MT	140	CDF	11/78-Present
439	Telemetry and Met Data	0	Nimbus 7	SAM II	NSSDC	LaRC	Yes	LaRC	15.00	18.00				10/78-12/93
440	Beta & Aerosol Number Density - BANAT	2	Nimbus 7	SAM II	NSSDC	LaRC	Yes	LaRC	0.30	0.30				10/78-12/93
466	Radiance Data Archive Tape (RDAT)	1	Nimbus 7	SAM II	NSSDC	LaRC	Yes		3.36	3.36	MT	8	Tape	11/01/78-10/31/85
463	Radiance Archive Tape (RAT)	1	Nimbus 7	SAMS	NSSDC	LaRC	Yes	U. Oxford	7.84	7.84	MT	6	Tape	10/23/78-06/13/83
464	Gridded Temperature Tape (GRID-	3	Nimbus 7	SAMS	NSSDC	LaRC		LaRC	0.44	0.44	MT	4	Tape	12/24/78-06/09/83
465	Zonal Means N2O CH4 Tape (ZMT-G)	3	Nimbus 7	SAMS	NSSDC	LaRC	Yes		0.11	0.11	MT	1	Tape	01/01/79-12/30/81
127	Nimbus-7 SBUV CPOZ	3	Nimbus 7	SBUV	NCDS	GSFC	Yes	GSFC	1.40	1.40	MT	13	CDF	10/31/78-03/01/88
128	Nimbus-7 SBUV Ozone	3	Nimbus 7	SBUV	NCDS	GSFC	Yes	GSFC	4.50	4.50	MT	41	CDF	11/1/78-3/1/88
319	SBUV Total + Profil Ozone TP(HDSBUV)	2	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	6.27	6.27	MT	36	Tape	10/31/78-03/01/88
321	Raw Units Tape-SBUV Data (RUT-S)	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes		23.16	23.10	MT	458	Tape	10/31/78-03/17/90
322	SBUV Zonal Means Ozone TP(ZMT-S)	3	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.44	0.44	MT	7	Tape	10/31/78-02/29/88
323	SBUV Cmpres Profil Ozone TP(CPOZ)	3	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.48	0.48	MT	10	Tape	10/31/78-12/31/87
324	SBUV Cont Scan Earth Rad TP	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	7	Tape	11/04/78-10/28/86
325	SBUV Cont Scan Solar Flux TP SUNC	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.88	0.88	MT	7	Tape	11/04/78-10/28/86
326	SBUV Total O3&PFL Contour(PSC)TP	1	Nimbus 7	SBUV	NSSDC	GSFC	Yes	GSFC	0.28	0.28	MT	10	Tape	11/07/78-09/30/86
154	Prabhakara's Monthly Water Vapor	3	Nimbus 7	SMMR	NCDS	GSFC	Yes	GSFC	0.01	0.01	Disk		CDF	1/79-9/83
155	Ice Concentration	3	Nimbus 7	SMMR	NCDS	GSFC	Yes	GSFC	0.02	0.02	Disk		CDF	11/78-8/87
215	Microwave Vegetation Index	3	Nimbus 7	SMMR	PLDS/GSFC	EDC		Choudhury	0.02	0.02	MT	1	Tape	1/79-12/79
216	Snow Depth	3	Nimbus 7	SMMR	PLDS/GSFC	EDC	Yes	GSFC	0.02		MT	1	Tape	11/1/78-8/1/87
307	Image File & Browse Software		Nimbus 7	SMMR	NSSDC	GSFC			0.02	0.02	Floppy	18		
308	Antenna Temperature Tape (TAT)	1	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	82.06	82.06	MT	574	Tape	10/25/78-06/29/88
309	Horiz. & Vert. Polarized Brightness Temp.	1	Nimbus 7	SMMR	NSSDC	GSFC			21.12	21.12	MT	541	Tape	10/29/78-08/25/87
310	Param of Land and Ocean (PARM-LO)	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	9.72	9.72	MT	243	Tape	10/29/78-10/29/86

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
469	Insolation, OLR, Albedo, Net Radiation		4.5 deg Lat.		Global	Sfc	78-098A-07E		L-67
470							78-098A-07G		L-68
471	Calibrated Radiances	2/day	85 x 85 km		Global		78-098A-07H		L-69
472							78-098A-07I		L-70
473							78-098A-07J		L-71
474							78-098A-07K		L-72
475	Outgoing LW Radiation, Albedo, Net Radiation	1/mon	500 x 500 km		Global		78-098A-07O		L-73
476	Albedo, OLR, Net Radiation	1/8 day, 1/mon					78-098A-07P		L-74
477	SW, LW Calib. Radiance mean, BDRF, Solar Insolation	1/day	1.5 x 1.5 deg		Global		78-098A-07R		L-75
478		2/day					78-098A-07S		L-76
479							78-098A-07T		L-77
480							78-098A-07U		L-78
136	Height, Humidity, Nitric Acid, Nitrogen Dioxide, Ozone, Temperature	1/day		1.5 km	Global (84 N - 64 S)	100 - 0.05 mb		M	G-072
303	Temperature Profiles, Ozone Mixing ratios, H2O, Nitric Acid, N2O	1/day	4 x 4 deg		84 N - 64 S	10 - 65 km	78-098A-01A		G-245
304	Calibrated Radiances	2/day	4 deg Lat. zones		84 N - 64 S	10-65 km	78-098A-01B		G-246
305	Radiance Profiles	1/day		.1 km			78-098A-01F		G-247
306	Temp., O3, NO2, Water Vapor, Nitric Oxide	1 /seas	4 x 4 deg		84N - 64S		78-098A-01L		G-248
137	Aerosols	1/3 mon	1 x 250 km	1 km	72N to 72 S			M	G-073
439	Telemetry, Meteorological Data							L	L-37
440	Aerosol Extinction Profiles, Tot. Extinction Ratio, Aerosol Number density							M	L-38
466	IR Radiances	2/day			64N-80-N; 64S-80S		78-098A-06A		L-64
463	Uncalibrated and Calibrated Radiance, Temp. profiles	2/day					78-098A-02A		L-61
464	Temperature	1/day	2.5x 10 deg	Variable	67.5 N - 50 S	1000 - 0.003 mb	78-098A-02B		L-62
465	CH4 and N2O Mixing Ratio		2.5 deg Lat.		67.5 N - 50 S	100 km	78-098A-02C		L-63
127	Reflectivity, Ozone	1/14 days	1x250 km	1km( >25 km) ; 15km(<25km)	Global	100-0.3 mb		M	G-063
128	Reflectivity, Ozone	1/14 days	200x200 km	8km ( > 25 km) ; 15 km(<25 km)	Global	100-0.3 mb	Daylight only	M	G-064
319	Tot. Ozone, Reflectivity, Ozone profile, Layer O3 Amt.	2/day		8 km	80 N - 80 S	100 - 0.3 mb	78-098A-09D		G-261
321	Raw Radiance, Cloud Info.				80N-80S		78-098A-09F		G-263
322	Tot. Ozone, Reflectivity, Ozone Mixing Ratio	1/day, 1/wk, 1/mon, 1 /season	10 deg Latitude		80 N - 80 S	100 - 0.3 mb	78-098A-09K		G-264
323	Tot. Ozone, Reflectivity, Ozone Mixing Ratio, Layer O3 Amt.					100 - 0.3 mb	78-098A-09Q		G-265
324	Normalized and mean Solar Irradiance	1/day			80 N - 80 S		78-098A-09U		G-267
325	Normalized and mean Solar Irradiance	1/day			80 N - 80 S		78-098A-09V		G-268
326	Tot. Ozone, Profile Ozone	1/day	65 x 65 P.S. grid		80 N - 80 S	30 - 0.4 mb	78-098A-09W		G-269
154	Water Vapor	1/mon	3 x 5 deg		Global Oceans (50 N - 50 S)		1991 Launch	M	G-090
155	Ice Concentration	1/mon	30x30 km		Polar	Sfc		H	G-091
215	Vegetation Index	1/mon	.25x.25 Deg	N/A	Global	Sfc		L	G-151
216	Snow Depth	1/mon	0.5x0.5 Deg	N/A	Global	Sfc	106 Data Sets in 1 tape	M	G-152
307							78-098A-03G		G-249
308	Antenna Temperature				Global		78-098A-08A		G-250
309	Brightness Temp. (calib)		30 - 156 km				78-098A-08B		G-251
310	SST, Tot. Atm. Water Vapor, Sea Sfc Wind		156 km, 60 km, 97.5 km		60 N - 55 S		78-098A-08D		G-252

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
311	Mapped Param 37-GHz Chan(MAP-30)	3	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	2.40	2.40	MT	60	Tape	10/30/78-10/30/83
312	Mapped Parameters of Land-Ocean (MAP-LO)	3	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	2.40	2.40	MT	60	Tape	10/30/78-10/26/83
313	Calibrated Temperature Tape(TCT)	1	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	58.96	58.96	MT	541	Tape	10/25/78-08/20/87
314	0.5-Deg Cal. Temp Map (TCT) Tape	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	14.19	14.19	MT	101	Tape	10/25/78-08/20/87
315	0.25-Deg Cal. Temp Map (TCT) Tape	2	Nimbus 7	SMMR	NSSDC	GSFC	Yes	GSFC	3.96	3.96	MT	36	Tape	10/25/78-08/20/87
316	Antenna Temperature (TAT) , Optical Disk	1	Nimbus 7	SMMR	NSSDC	GSFC		GSFC	1.00	1.00	OD	1		10/25/78 - 04/09/88
385	Reprocessed Brightness Temp.	2	Nimbus 7	SMMR	JPL	JPL				10.00				7/78-10/86
386	Ocean Heat Fluxes	3	Nimbus 7	SMMR	JPL	JPL		GSFC	0.05	0.05				7/78-10/86
387	Surface Wind; Atmos Water	3	Nimbus 7	SMMR	JPL	JPL				6.00				7/78-10/86
493	Brightness Temperature (Tb)	1	Nimbus 7	SMMR	MSFC	MSFC	Yes	GSFC	13.00	13.00				12/81-5/84
524	Gridded Brightness Temperatures	3	Nimbus 7	SMMR	NSIDC	NSIDC	Yes	NSIDC	0.66	0.66	CD			1978-1980
525	Sea Ice Conc., Type (25 km Grid)	3	Nimbus 7	SMMR		NSIDC		Gloersen		38.54				1978-1987
526	Gridded Brightness Temp. (25 km)	3	Nimbus 7	SMMR	NSIDC	NSIDC	Yes	Gloersen	30.92	30.92				1978-1987
570	Sea Ice Parameters 37-GHz (PARM-30)	3	Nimbus 7	SMMR	NSSDC	NSIDC		GSFC	15.73	15.73	MT	391		10/29/78 - 10/29/86
571	Parameters; Sea-Ice, Snow & Ice (PARM-SS)	3	Nimbus 7	SMMR	NSSDC	NSIDC			9.72	9.72	MT	243		10/29/78 - 10/29/86
572	Mapped Parameters, Sea Ice + Snow (MAP-SS)	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	2.35	2.36	MT	59	Tape	10/30/78-10/25/83
573	GARP (FGGE/SMMR-30) Sea Ice Concentration	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.72	0.72	5.25" Floppy	15	ASCII	11/30/78-11/30/79
574	MISEX Brightness Temperature Data	2	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.66	0.66	MT	6	Tape	11/27/83-04/29/84
575	MISEX-W Sea Ice Concentration	3	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.11	0.11	MT	1	Tape	02/01/83-02/28/83
576	Colorado R Snow Param Atlas Disk	2	Nimbus 7	SMMR	NSSDC	NSIDC	Yes	GSFC	0.65	0.65	MT	18	ASCII	12/05/78-04/21/86
141	Nimbus-7 THIR CMATRIX Tapes [Cloud Data]	3	Nimbus 7	THIR	NCDS	GSFC	Yes	GSFC	0.99	0.99	MT	7	Tape	04/01/79-03/31/85
329	Calib.-Located RAD Data TR(CLD'T)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	179.12	179.12	MT	200	Tape	10/30/78-05/09/85
330	Cloud Data ERB Format (NCLE)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	41.44	41.44	MT	312	Tape	04/01/79-03/31/85
331	Cloud Data TOMS Format (BCLT)	2	Nimbus 7	THIR	NSSDC	GSFC	Yes	GSFC	35.72	35.72	MT	893	Tape	04/01/79-11/04/84
126	Nimbus-7 TOMS Gridded Ozone Data	3	Nimbus 7	TOMS	NCDS	GSFC	Yes	GSFC	0.55	1.50	MT,CD	14	CDF	11/78-6/90
317	TOMS Near Realtime System	2	Nimbus 7	TOMS	NSSDC	GSFC	Yes		0.44	0.60	MT	11	Tape	03/01/81-05/15/81
318	HDTOMS Total Ozone Data Tape	2	Nimbus 7	TOMS	NSSDC	GSFC	Yes		21.67	30.00	MT	159	Tape	10/31/78-01/07/90
320	Raw Units Tape TOMS (RUT-T)	1	Nimbus 7	TOMS	NSSDC	GSFC	Yes		34.20	70.00	MT	755	Tape	10/31/78-01/14/90
327	TOMS Gridded Ozone Data, CD-ROM	2	Nimbus 7	TOMS	NSSDC	GSFC			0.60	0.60	CD	1		11/01/78 - 12/31/88
328	TOMS Image Ozone Data, CD-ROM		Nimbus 7	TOMS	NSSDC	GSFC		GSFC	0.60	0.60	CD	1		11/01/78 - 03/31/91
384	CD-ROM of CZCS Pigment and MCSST	3	Nimbus 7 & NOAA	CZCS & AVHRR	JPL	JPL				6.80				1978-1986
2	Raw Image Data	1B	NOAA	AVHRR	U. of Alaska	TBD	Yes	U. of Alaska			Film			1974-On
22	NDVI (U.S. Biweekly Composite)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		7.00	16.00				1988 -On
23	NDVI (N. America Biweekly)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		<1	24.00				1990 -On
24	NDVI (Eurasian 10-day Composite)	3(1B)	NOAA	AVHRR	EDC	EDC	Yes		9.00	17.00				1986 -On
25	NDVI (African Biweekly)	3	NOAA	AVHRR	EDC	EDC	Yes		13.00	13.00				1987-89
225	NDVI LAC data sets	0, 1	NOAA	AVHRR	PLDS/GSFC	EDC		TBD	TBD	TBD				TBD
388	Miami MCSST	3	NOAA	AVHRR	JPL	JPL			10.00	14.00				10/81-6/91
389	West Coast Time Series - LAC	3	NOAA	AVHRR	JPL	JPL				6.80				2/79-6/86
446	Global Area Coverage - GAC	1B	NOAA	AVHRR	NCDS	LaRC	Yes	NOAA	300.00	>300				10/84-6/89
527	Ice Surface Temperature (By Orbit)	2	NOAA	AVHRR		NSIDC				246.38				1992-1994
528	Ice Surface Temperature (Gridded)	3	NOAA	AVHRR		NSIDC				1.75				1992-1994
529	Ice Margin Ocean SSTs (By Orbit)	2	NOAA	AVHRR		NSIDC				TBD				1992-1994



## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
311	Brightness Temp.	1/6 days, 1/mon	533 x 533 PS Grid				78-098A-08G		G-253
312	SST, Wind, Total Water Vapor	1/6 days, 1/mon	Variable		Global(64 N - 64 S)		78-098A-08H		G-254
313	Model Calibrated Radiance Temp.		148, 91, 55, 27 km				78-098A-08W		G-255
314	Calibrated Brightness Temp.	1/6day	55 x 55 km		Global (85N-85S)		78-098A-08Y		G-256
315	Calibrated Brightness Temp.	1/6day	27.5 x 27.5 km		Global (85N-85S)		78-098A-08Z (9 Tks/6250bpi)		G-257
316							78-098A-08d		G-258
385	Brightness Temperature						Consistent Calibration	H	J-27
386	Heat Flux						THEP Task	H	J-28
387	Surface Wind, Atmospheric Water						SSM/I Algorithm	H	J-29
493	Brightness Temperature		18 - 136 km		Global			M	M-11
524	Brightness Temp		25 km				NSIDC Product. 1 CD-Rom	H	SI-13
525	Sea Ice Conc., Type		25 km				Planned VO-Effort	H	SI-14
526	Brightness Temp		25x25 km					H	SI-15
570							78-098A-08C		SI-59
571							78-098A-08E		SI-60
572	Sea Ice, Ice Parameters	1/6 days, Mon	Variable PS Grid				78-098A-08F		SI-61
573							78-098A-08V		SI-62
574	Brightness Temp.	2/day	30 - 156 km				78-098A-08X		SI-63
575	Sea Ice Concentration		293 x 293 P. Stereo				78-098A-08b		SI-64
576	Polarization and Gradient Ratios	1/6 day	2 x 2 deg	N/A	32N - 46N ; 105W - 120W	N/A	78-098A-08c		SI-65
141	Total, low, mid, and high Cloud Amount, Clear Radiances, Spatial & Temporal variance, snow	1/day, 1/mon	500 x 500 km		Hemispheric, Zonal, Global	2 - 7 km	78-098A-10F	M	G-077
329	Calibrated Radiance(6.7,11.5 micrometer)	14/day			Global		78-098A-10C		G-272
330	Total, low, mid and high Cloud Amount, Cirrus/deep convect. cloudiness, Cloud & Surface Rad.	2/ day	165 x 165 km		Global		78-098A-10D		G-273
331	Total, low, mid and high Cloud Amount, Cirrus/deep convect. cloudiness, Cloud & Surface Rad.	2/ day	50 - 200 km		Global	2 - 10 km	78-098A-10E		G-274
126	Reflectivity, Ozone	1/day, 1/mon, 1/seas	1 x 1.25 deg @ low lat & 1 x 5 deg @ high lat		Global		300 Tapes	H	G-062
317	Real Time System Data						78-098A-09A		G-259
318	Total Ozone, Sfc Reflectivity, Albedo		66 x 66 km	Variable	Global	Atmosphere	78-098A-09C		G-260
320	Raw UV Radiance, Cloud Info.				80N-80S		78-098A-09E		G-262
327							78-098A-09Z		G-270
328							78-098A-09a		G-271
384	Pigment, SST		18 km				International Space Year	M	J-26
2	Radiances (Images)		1.1 km			Sfc	19500 Frames on 10" film transparencies	H	A-02
22	Vegetation Index	1/2wk	9 km		U.S.	Sfc		H	E-07
23	Vegetation Index	1/2wk	9 km		N. America	Sfc		H	E-08
24	Vegetation Index	1/10 day	9 km		Eurasia	Sfc	NOT AVAILABLE FOR 1989	H	E-09
25	Vegetation Index	1/2wk	9 km		Africa	Sfc		H	E-10
225	Radiances	2/day	1 km		Global		TBD	L	G-162
388	SST	1/wk	18x18 km		Global & Regional	Sfc	18 km, Weekly Avg, Global& Regional	M	J-30
389					20N-55N; 105W-140W		20N-55N; 105W-140W	L	J-31
446	Radiances		4 km		Global		Used in ERBE Processing	M	L-44
527	Ice Surface Temperature						Planned VO Effort	M	SI-16
528	Ice Surface Temperature						Planned VO Effort	H	SI-17
529	SST						Planned VO Effort	M	SI-18

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
530	N.H. Polar Gridded Subset (AVHRR 1.1 Km 2/Wk)	3	NOAA	AVHRR		NSIDC		NESDIS		6.55				1988-1993
492	Tb and Products	0,1,2	NOAA	MSU	MSFC	MSFC	Yes	NOAA	16.00	20.00				1/79-9/94
157	ISCCP Snow/Ice Data	3	NOAA	Multi	NCDS	GSFC	Yes	GISS	1.00	2.00	MT	3	Tape	7/83-12/88
76	TOVS Radiances (Pathfinder)	1B	NOAA	TOVS		GSFC	No	NOAA / NCAR		445.00				11/78 - on
77	Atmosphere, Surface, Cloud Products	2	NOAA	TOVS		GSFC	No	GSFC		1,041.00				11/78 - on
78	Gridded Products	3	NOAA	TOVS		GSFC	No	GSFC		176.00				11/78 - on
79	Analyzed Fields	4	NOAA	TOVS		GSFC	No	GSFC		74.00				11/78 - on
358	TOVS Raw Data w/Calib. & Locations		NOAA	TOVS	NSSDC	GSFC			95.42	95.42	MT	2259		10/29/78-04/11/85
377	Emery Water Vapor Corrections	3	NOAA	TOVS	JPL	JPL			0.05	0.05				1/87-8/87
531	TOVS Data, Polar Subset	1B	NOAA	TOVS		NSIDC		NOAA		TBD				TBD
421	Telemetry & Ephemeris	0	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	50.00	84.00				11/86-12/93
422	S8 - Processed Archival Tape	2	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	1.10	36.00				11/86-5/89
423	S2 - Solar Incidence	2	NOAA 10	ERBE	NSSDC	LaRC	Yes	LaRC	<0.001	0.03				11/86-12/93
424	S7 - Medium/Wide FOV	2	NOAA 10	ERBE	NSSDC	LaRC		LaRC	0.00	2.70				11/86-12/93
145	Heat Budget Data	3	NOAA 2-11	SR, AVHRR	NCDS	GSFC	Yes	NESDIS	8.30	8.30	MT	76	CDF	6/74-present
21	1-km HRPT and LAC Data	1B	NOAA 6-11	AVHRR	EDC	EDC	Yes	NOAA	1,540.00	4,480.00				10/78 - On
65	GAC - NOAA 1B Input data	1B	NOAA 7,9,11	AVHRR	NOAA	GSFC		NOAA	690.00	2,990.00				1981-On
66	Atmospheric Products - Day and Night Composites - 50 km	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		570.00				1981-On
67	Atmospheric Products - 7 day Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		81.00				1981-On
68	Atmospheric Products - Mon. Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		19.00				1981-On
69	5 Channel Clear Sky Radiance - 9 km	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		425.00				1981-On
70	NDVI - 10 Day Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		57.00				1981-On
71	NDVI - Monthly Composite	3	NOAA 7,9,11	AVHRR		GSFC		GSFC		19.00				1981-On
72	Sea Surface Temperature - Day and Night Composites - 9 km	3	NOAA 7,9,11	AVHRR		JPL		GSFC		1,140.00				1981-On
73	SST - 10 Day Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		114.00				1981-On
74	SST - Monthly Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		38.00				1981-On
75	Buoy Match-up Data	1,3	NOAA 7,9,11	AVHRR		JPL		GSFC						1981-On
390	Sea Surface Temperature - Day and Night Composite - 9 km	3	NOAA 7,9,11	AVHRR		JPL		GSFC		1,140.00				1981 - on
391	Sea Surface Temperature - 10 Day Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		114.00				1981 - on
392	Sea Surface Temperature - Monthly Composite	3	NOAA 7,9,11	AVHRR		JPL		GSFC		38.00				1981 - on
393	Buoy Match-up Data	1,3	NOAA 7,9,11	AVHRR		JPL		GSFC						1981 - on
158	LACGAC/HRPT Radiances for FIRE ETO	1B	NOAA 7-10	AVHRR	NCDS	GSFC	Yes	NESDIS	100.20	280.00	MT	911	Tape	4/86-11/89
217	AVHRR GAC Radiances	1B	NOAA 7-10	AVHRR	PLDS/GSFC	GSFC	Yes	Hutchinson	2.50	7.50	MT	111	Tape	11/2/86-10/26/88
218	AVHRR LAC Radiances	1B	NOAA 7-10	AVHRR	PLDS/GSFC	EDC	Yes	TBD	12.20	36.59	MT	542	Tape	4/15/83-1/29/88
159	TOVS Radiances for FIRE ETO	1B	NOAA 7-10	TOVS	NCDS	GSFC	Yes	NESDIS	15.00	30.00	MT	125	Tape	4/86-10/90
156	Multi-Channel Sea Surface Temperature (MCSST)	3	NOAA 7-11	AVHRR	NCDS	GSFC	Yes	NOAA	11.04	15.00				11/81-3/90
417	Telemetry & Ephemeris	0	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	71.00	104.00				2/85-12/93
418	S8 - Processed Archival Tape	2	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	28.00	28.00				2/85-1/87
419	S2 - Solar Incidence	2	NOAA 9	ERBE	NSSDC	LaRC	Yes	LaRC	0.01	0.04				2/85-12/93
420	S7 - Medium/Wide FOV	2	NOAA 9	ERBE	NSSDC	LaRC		LaRC	0.00	3.40				2/85-12/93
443	Stage B3 GLOBAL Cloud Data	2	NOAA, GOES	ISCCP	NCDS	LaRC		GISS	0.00	230.00				7/83-1/92
444	Stage C1 Cloud Analysis	3	NOAA, GOES	ISCCP	NCDS	LaRC	Yes	GISS	3.00	8.00				7/83-1/92

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
530	Radiances	2/wk	1 km		N. Hemisphere		Planned V0 Effort	H	SI-19
492	Temperature (anomalies)	1/mon	2.5x2.5 deg		Global	Low Troposphere		H	M-10
157	Ice, Snow	1/day	1x1 deg		Global		To be distributed as is	H	G-093
76	Radiances	14/day	18-50 km		Global	1000 - 1 mb	Pathfinder	L	G-012
77	Temperature & Humidity Profiles, Cloud Height & Amount	14/day	60 km		Global	1000 - 1 mb	Pathfinder	M	G-013
78	Temperature & Humidity Profiles, Cloud Height & Amount	2/day	1 x 1 deg		Global	1000 - 10 mb	Pathfinder	H	G-014
79	Temperature & Humidity Profiles, Cloud Height & Amount	2/day	4 x 5 deg		Global	1000 - 10 mb	Pathfinder	M	G-015
358							SN-21A		G-301
377	Water Vapor	1/wk			Ocean		Gridded Water Vapor	M	J-19
531							Planned V0 Effort	M	SI-20
421	Telemetry, Ephemeris Data				Global			L	L-19
422	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-20
423	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-21
424		1/mon			Global			M	L-22
145	Radiation Budget	1/day	2.5x2.5 deg		Global			H	G-081
21	Radiances		1 km		Local		May be Pathfinder Data	H	E-06
65	Calibrated 5 Channel Radiances	2/day	4 km		Global		(Pathfinder)	H	G-001
66	Cloud and Radiance Fields	2/day (d,n)	50km		Global		(Pathfinder)	H	G-002
67	Cloud and Radiance Fields	1/wk	50km		Global		(Pathfinder)	H	G-003
68	Cloud and Radiance Fields	1/mon	50km		Global		(Pathfinder)	H	G-004
69	Average Radiances	1/day	9 km		Global		(Pathfinder)	H	G-005
70	Vegetation Index	1 /10 day	9 km		Global/ Land	Sfc	(Pathfinder)	H	G-006
71	Vegetation Index	1 /mon	9 km		Global/ Land	Sfc	(Pathfinder)	H	G-007
72	SST	2/day (d,n)	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-008
73	SST	1 /10 day	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-009
74	SST	1 /mon	9 km		Global/ Ocean	Sfc	(Pathfinder)	H	G-010
75	Derived SST, Bouy SST	2/day	Buoy locations		N/A	Sfc	(Pathfinder)Buoy Observations colocated with SST	H	G-011
390	SST	2/day	9 km		Global / Ocean			H	J-32
391	SST	10 day composite	9 km		Global / Ocean			H	J-33
392	SST	1 mo composite	9 km		Global / Ocean			H	J-34
393	SST				Global / Buoy Locations			H	J-35
158	Radiances	1/day	1 km - 4 km		30N - 50N and 140W - 60E; Regional			L	G-094
217	Radiances	2/day	4 km		Global			M	G-153
218	Radiances	2/day	1 km		Regional		552 Tapes	M	G-154
159	Radiances		109.3 km (MSU); 147 km (SSU); 17 km (HIRS)		Regional		111 Tapes in 1991	L	G-095
156	SST	1 /wk (ave)	18 x 18 km	N/A	Global/Ocean	Sfc		H	G-092
417	Telemetry, Ephemeris Data	1/day			Global			L	L-15
418	Radiometric Measurements, Radiant Exitance	1/day			Global			M	L-16
419	Scanner/ Non Scanner Radiometric Measurement	1/mon			Global			M	L-17
420		1/mon			Global			M	L-18
443	Cloud Parameters				Global			M	L-41
444	Cloud Parameters	1/3hrs			Global		3 Hour Data	H	L-42

# Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
445	Stage C2 Cloud Analysis	3	NOAA, GOES	ISCCP	NCDS	LaRC	Yes	GISS	0.10	0.40				7/83-1/92
184	2800 MHz Solar Flux	2	Observatory	Telescope	NCDS	GSFC	Yes	DRAO	0.00	0.00				01/81-12/87
359	Sensor Data Record	1A	Seasat	Altimeter	NODS/JPL	JPL	Yes		0.44	0.44				7/78-10/10/78
360	Geophysical Data Record	1B	Seasat	Altimeter	NODS/JPL	JPL	Yes		0.35	0.35	MT	14	Tape	7/78-10/10/78
363	Sensor Data Record	1A	Seasat	Scatterometer	NODS/JPL	JPL	Yes		8.00	8.00				7/78-10/10/78
364	Geophysical Data Record	1B	Seasat	Scatterometer	NODS/JPL	JPL	Yes		0.34	0.34				7/78-10/10/78
366	Wentz Co-located Sigma-Naught	2	Seasat	Scatterometer	JPL	JPL	Yes		1.77	1.77				7/78-10/10/78
367	Atlas Dealiased Gridded Surface-Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.64	0.64				7/78-10/10/78
368	Wentz,Atlas,Freilich Dealiased Surface Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.26	0.26				7/78-10/10/78
369	Chelton Monthly Wind Vectors	3	Seasat	Scatterometer	JPL	JPL			0.05	0.05				7/78-10/10/78
370	JPL-UCLA-AES Dealiased Surface-Wind Vectors	3	Seasat	Scatterometer	JPL	JPL	Yes		0.05	0.05				9/6/78-9/20/78
361	Sensor Data Record	1A	Seasat	SMMR	NODS/JPL	JPL	Yes		5.68	5.68				7/78-10/10/78
362	Geophysical Data Record	1B	Seasat	SMMR	NODS/JPL	JPL	Yes		0.17	0.17				7/78-10/10/78
365	Carsey-Pihos Polar Gridded Data	3	Seasat	SMMR	JPL	JPL	Yes		0.07	0.07				7/78-10/10/78
371	Sensor Data Record	1A	Seasat	VIRR	NODS/JPL	JPL	Yes		2.50	2.50				7/78-10/10/78
84	Recorded GAC	1	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		112.00				1993-On
85	Recorded LAC	1	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		57.00				1993-On
86	HRPT	1	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		85.00				1993-On
87	GAC Derived Geophysical Parameters	2	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		168.00				1993-On
88	GAC Derived Compressed Products	3	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		142.00				1993-On
89	GAC Derived Mosaic Products	3	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		15.00				1993-On
90	Ancillary Data	3,4	Seasat	SeaWiFS		GSFC		SeaWiFS Proj.		2.00				1993-On
401	SeaWiFS Local Area Cov., LAC	1	SeaStar	SeaWiFS	JPL	JPL	No			30.00				8/93 - on
132	ATMOS Data & Derived Products	0-3	Shuttle	ATMOS		GSFC	No	GSFC		88.20				Days / Year
482	Tropospheric CO & N2O Mixing Ratio Tape		Shuttle	ATMOS	NSSDC	LaRC			0.40	0.40	MT	10	Tape	10/05/84-10/13/84
261	Shuttle large format camera data	N/A	Shuttle	Camera	PLDS/JPL	EDC			N/A	N/A				TBD
481	Tropospheric CO Mixing Ratio Tape		Shuttle	MAPS	NSSDC	LaRC			0.08	0.08	MT	2	Tape	11/14/81-11/14/81
344	Calibrated Radiance Data	1B	Shuttle	OCE	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	11/14/81-11/14/81
28	SIR-B/C Data	1B	Shuttle	SAR		EDC				TBD				TBD
63	Image Data & Annotation on Tape		Shuttle	SIR-B	NSSDC	EDC			6.46	6.46	MT	162		10/07/84 - 10/10/84
64	Data Takes Listing		Shuttle	SIR-B	NSSDC	EDC			0.04	0.04	MT	1		10/06/84 - 10/12/84
345	Radiometric Calibration Data	1	Shuttle	SMIRR	NSSDC	GSFC	Yes		0.08	0.04	MT	2	Tape	06/09/81-03/01/82
346	Uncalibrated Radiometer Data	0	Shuttle	SMIRR	NSSDC	GSFC	Yes		0.21	0.21	MT	5	Tape	11/12/81-11/14/81
332	Ozone Radiance Data, Tape	1	SME	LVUVOS	NSSDC	GSFC	Yes	GSFC	0.68	0.68	MT	17		12/16/81-12/18/86
333	Daily Orbital Ozone Profile, Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/15/81-12/18/86
334	1-D & 30 D Avg. Ozone Vol. Mixing Ratio (VMR) Profiles Tape	2	SME	LVUVOS	NSSDC	GSFC		GSFC	0.04	0.04	MT	1		01/06/82 - 12/11/86
335	Orbit NO Density PFL Geo Lat Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes		0.12	0.12	MT	3		01/06/82-12/16/86
336	Orbit NO Density PFL Mag Lat Tape	2	SME	LVUVOS	NSSDC	GSFC	Yes		0.12	0.12	MT	3		01/06/82-12/16/86
337	Radiance Data, Tape	1	SME	NIRS	NSSDC	GSFC	Yes		2.08	2.08	MT	52		12/16/81-11/26/86
338	Daily Orbital Ozone Profile, Tape		SME	NIRS	NSSDC	GSFC	Yes	GSFC	0.16	0.16	MT	4	Tape	12/15/81-12/18/86
339	IR ID + 30D Ozone VMR PFL Tape		SME	NIRS	NSSDC	GSFC	Yes	GSFC	0.04	0.04	MT	1	Tape	01/01/82-12/18/86
143	Lyman-ALPHA Solar Irradiance	1B	SME	Spectrometer	NCDS	GSFC	Yes		0.00	0.00	Disk		CDF	1/81-12/87

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
445	Cloud Parameters	1/mon			Global		Monthly Ave of C1	M	L-43
184	Solar Flux							L	G-120
359	Sensor Data		2.4-12km		Global		Granule - 1 orbit	L	J-01
360					Global		Granule - specific periods/regions, Calibrated & Corrected Data	M	J-02
363	Sensor Data		50km		Global		Granule - 1 orbit	L	J-05
364					Ocean		Granule - specific periods/regions, Calibrated & Corrected Data	M	J-06
366			50x50 km		Ocean	Sfc		M	J-08
367	Surface Wind Vector		100x100 km		Ocean		SASS1 Algorithm	M	J-09
368	Wind Vectors		100km		Ocean	Sfc	SASS2 Algorithm	M	J-10
369			2.5 x 2.5 deg		Ocean	Sfc	Ave of SASS2 Product	M	J-11
370	Surface wind Vectors	1/6hours	1 x 1 deg		Ocean	Sfc		M	J-12
361	Sensor Data	orbital	16-50km		orbital		Granule - 1 orbit	M	J-03
362	Geophys. Data	orbital	25-125km		Specific periods/regions		Calibrated & Corrected Data	L	J-04
365			100x100 km		Ocean	Sfc	Mean Stand Dev, Min, and Max	M	J-07
371	Sensor Data		3-5km		Global		"Raw" Data	L	J-13
84	Radiances	2/day	1.1 km every 4 km		Global oceans		307 MB/day	M	G-020
85	Radiances	2/day	1 km		Local		155 MB/day	M	G-021
86	Radiances	2/day	1 km		Selected local areas		232 MB/day	M	G-022
87	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	2/day	1.1 km every 4 km		Global oceans		CZCS type products (460 MB/day)	M	G-023
88	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	1/day, 1/8 days, 1/mon	10-20 km		Global		Daily dataset 256 MB, all others 760 MB.	M	G-024
89	Chlorophyll-a conc., Pigment conc., Diffuse attenuation coeff., Water leaving radiances, Aerosol radiances, Errors	1/day, 1/8 days, 1/mon	2048 x 4096 pixels		Global		2048 x 4096 Image; each image 32 Mb	M	G-025
90	Surface Pressure, Ozone, water vapor, surface wind speed, aerosol	2/day	1 deg- 2.5 deg		Global		NMC Data, TOMS Ozone Data	M	G-026
401	Radiances				Regional			H	J-43
132	ATMOS Radiances, Products				Regional		Calibrated data from PI instrs.	M	G-068
482	CO and N2O Volume Mixing Ratio		5 x 5 deg		57 N - 57 S	3 - 12 km	84-108A-03A		L-80
261							TBD	L	G-203
481	CO Mixing Ratio				38 N - 38 S	3 - 12 km	81-111A-04A		L-79
344	Calibrated Radiance(.49-.79 micrometer)		1-3 km		Mediterranean, Yellow sea	Sfc	81-111A-05A		G-287
28								M	E-13
63							84-108A-01B		E-48
64							84-108A-01C		E-49
345	Calibration data						81-111A-02A		G-288
346	Raw Radiometric Measurements						81-111A-02B		G-289
332	UV Radiances			3.5 km		41-83 km	81-100A-01B		G-275
333	O3 Profiles						81-100A-01C		G-276
334		1/day, 1/mon					81-100A-01E		G-277
335	Nitric Oxide Profiles					8 Pressure levels	81-100A-01G		G-278
336	Nitric Oxide Profiles					8 Pressure levels	81-100A-01F		G-279
337	LW and SW Radiance Profile						81-100A-03B		G-280
338	O3 Profiles	1/day					81-100A-03C		G-281
339		1/day, 1/mon					81-100A-03E		G-282
143	Solar Flux	daily			Full Solar Disk			L	G-079

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
343	Solar Irradiance Data, Tape	1	SME	SUVM	NSSDC	GSFC			0.46	0.46	MT	1	Tape	01/01/82-06/30/88
340	Daily Avg. Column NO2, Tape	3	SME	VND	NSSDC	GSFC	Yes	GSFC	0.08	1.00	MT	25	Tape	01/01/82-12/18/86
341	Orbital Nitrogen Dioxide PFL,	2	SME	VND	NSSDC	GSFC	Yes		0.08	0.08	MT	2		02/17/82-12/31/86
342	30-D Avg. Nitrogen Dioxide PFL, Tape	3	SME	VND	NSSDC	GSFC	Yes		0.04	0.04	MT	1	Tape	01/01/82-12/31/86
415	Lyman Alpha Solar Irradiance	2	SME		NCDS	LaRC		LaRC						1/81-12/87
144	Daily Mean Solar Flux	3	SMM	ACRIM	NCDS	GSFC	Yes	JPL	0.00	0.00	Disk		CDF	2/16/80-12/31/88
416	Mean Solar Flux	2	SMM	ACRIM	NCDS	LaRC		LaRC						2/80-12/88
57	EHT - VISSR Digital Data Tapes	1	SMS1	VISSR	NSSDC	EDC	Yes	NOAA	12.12	12.12	MT	374		05/17/74-10/20/75
58	AOIPS IR + Visible Image Data	1	SMS1	VISSR	NSSDC	EDC	Yes	NOAA	218.88	218.88	MT	5769	AOIPS	05/17/74-09/26/75
59	IDAMS Visible + IR Image Data	2	SMS1	VISSR	NSSDC	EDC			31.44	31.44	MT	788	Tape	05/17/74-09/06/74
60	EHT - VISSR Digital Data Tapes	1	SMS2	VISSR	NSSDC	EDC	Yes	NOAA	13.36	13.36	MT	333	Tape	02/17/75-08/28/75
61	AOIPS IR + Visible Image Data	1	SMS2	VISSR	NSSDC	EDC	Yes	NOAA	170.85	170.85	MT	4209	AOIPS	08/12/74-09/12/79
62	IDAMS Visible + IR Image Data	2	SMS2	VISSR	NSSDC	EDC			71.20	71.20	MT	1220	Tape	02/06/75-10/27/75
45	NASA Space Photography	0	Spacecraft	Film Camera	EDC	EDC	Yes	NASA						1960 - On
347	Trace+Mixr Gas Mix Ratio Profiles	2	Spacelab 3	ATM	NSSDC	GSFC			0.04	0.04	FLOPPY	1	N/A	04/01/85-05/31/85
348	IR Spectral Data Tapes	1	Spacelab 3	ATM	NSSDC	GSFC	Yes	GSFC	2.42	2.42	MT	22	Tape	04/29/85-05/06/85
349	RAW Solar IR Spectral Data Tapes	0	Spacelab 3	ATM	NSSDC	GSFC	Yes	JPL	0.11	0.11	MT	1	Tape	04/29/85-05/02/85
26	Digital Images	1	SPOT	HRV		EDC								
161	Hourly Surface Station Data	1B	Station		NCDS	GSFC		NCDC	0.05					1/78 - 12/87
162	NODC Ocean Data	3	Station		NCDS	GSFC		NODC						1900 - 1988
350	Final Met. Radiation Tapes	1	TIROS 2	SR	NSSDC	GSFC	Yes		0.08	0.08	MT	16	Tape	11/23/60-04/26/61
351	Omnidirectional Radiometer Tapes	1B	TIROS 3	OR	NSSDC	GSFC	Yes		0.20	0.20	MT	5	Tape	07/12/61-10/20/61
352	Final Met. Radiation Tapes	1	TIROS 3	SR	NSSDC	GSFC	Yes		0.08	0.08	MT	74	Tape	07/12/61-10/01/61
353	Omnidirectional Radiometer Tapes	1B	TIROS 4	OR	NSSDC	GSFC	Yes		0.42	0.42	MT	10	Tape	02/08/62-06/28/62
354	Radiance Value Tapes	1	TIROS 4	OR	NSSDC	GSFC	Yes		0.08	0.08	MT	2	Tape	02/08/62-06/10/62
355	Final Met. Radiation Tapes	1	TIROS 4	SR	NSSDC	GSFC	Yes		0.12	0.12	MT	3	Tape	02/08/62-06/30/62
356	Omnidirectional Radiometer Tapes	1B	TIROS 7	OR	NSSDC	GSFC	Yes		0.36	0.36	MT	9	Tape	06/19/63-08/29/63
357	Final Met. Radiation Tapes	1	TIROS 7	SR	NSSDC	GSFC	Yes		38.42	38.48	MT	689	Tape	06/19/63-06/19/65
146	Temperature and Moisture Profiles	2	TIROS N	TOVS	NCDS	GSFC	No		0.00	4.00				1979-On
148	ISCCP TOVS Sounding Data Set	3	TIROS N	TOVS	NCDS	GSFC	Yes	GISS	0.90	2.00	MT	8	CDF	7/83-12/90
147	Spencer's MSU Mid-Trop Temp.	2,3	TIROS N	MSU	NCDS	GSFC			0.01	0.01				1979-1991
398	Sensor Data Records	1	TOPEX	Altimeter	NODS/JPL	JPL	No			106.00				7/92 - on
399	Geophysical Data Record	2	TOPEX	Altimeter	NODS/JPL	JPL	No			10.00				7/92 - on
400	Merged Geophysical Data	3	TOPEX	Altimeter		JPL	No	CNES						6/92 - on
396	Precision Orbit Determination	1	TOPEX	GPS Receiver	JPL	JPL				1.00				7/92 - on
397	Sensor Data Records	1	TOPEX	Microwave Radiometer	JPL	JPL	No			0.70				7/92 - on
100	Instrument Science Data	0,1	UARS	CLAES		GSFC		UARS Proj.		69.55				8/91-on
101	Temperature and Trace Gas Profiles	2	UARS	CLAES		GSFC		UARS Proj.		0.20				8/91-on
102	Temperature and Trace Gas Profiles	3	UARS	CLAES		GSFC		UARS Proj.		42.63				8/91-on
109	Instrument Science Data	0,1	UARS	HALOE		GSFC		UARS Proj.		93.10				
110	Pressure and Trace Gas Profiles	2	UARS	HALOE		GSFC		UARS Proj.		0.01				8/91-on
111	Pressure and Trace Gas Profiles	3	UARS	HALOE		GSFC		UARS Proj.		0.13				8/91-on
112	Instrument Science Data	0,1	UARS	HRDI		GSFC		UARS Proj.		178.10				
113	Horizontal Vector Wind Fields	2	UARS	HRDI		GSFC		UARS Proj.		1.21				8/91-on
114	Horizontal Vector Wind Fields	3	UARS	HRDI		GSFC		UARS Proj.		35.51				8/91-on
103	Instrument Science Data	0,1	UARS	ISAMS		GSFC		UARS Proj.		36.40				8/91-on
104	Temperature and composition Profiles	2	UARS	ISAMS		GSFC		UARS Proj.		22.61				8/91-on

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
343	Solar Irradiance	1/day					81-100A-05A		G-286
340	NO2 Column Density	1/day (ave.)	5 deg zones		85 N - 85 S	20-76 km	81-100A-04A		G-283
341	NO2 Mixing Ratio Profiles		5 deg latitude		Global	8 Pressure levels	81-100A-04B		G-284
342	NO2 Profiles	1/mon (ave.)				Mesosphere?	81-100A-04C		G-285
415		1/day			Full Solar Disk			M	L-13
144	Solar Flux	daily			Full Solar Disk		120 TAPES	M	G-080
416		1/day			Full Solar Disk			M	L-14
57	Vis and IR radiances	2/day	0.9 - 8 km				74-033A-01A		E-42
58	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		74-033A-01D		E-43
59	Radiances						74-033A-01E		E-44
60	Vis and IR radiances	2/day	0.9 - 8 km				75-011A-04A		E-45
61	Calibrated Vis and IR Radiance Temp.		0.9 km, 8 km		Global (65 W-155 E)		75-011A-04D		E-46
62	Radiances						75-011A-04E		E-47
45			Multiple		Sub-global		142,000 Current Frames	L	E-30
347	Trace and Minor Gas Volume Mixing Ratios	2/day		4.1 km	Near 30 N, and 47 S	10 - 150 km	85-034A-14A		G-290
348							85-034A-14B		G-291
349							85-034A-14E		G-292
26	Radiances		10 km				Selected SPOT scenes if	H	E-11
161		1/hr			Point		3 U.S. Stations (NCDC TD-3280)	M	G-097
162	Salinity, Temperature		10 deg		80S-80N; 70E-110W			M	G-098
350	Calibrated Radiances ( .2-30 micrometers)						60-016A-02A		G-293
351	Radiances						61-017A-01A		G-294
352	Calibrated Radiances ( .2-30 micrometers)						61-017A-03A		G-295
353	Radiances						62-002A-01A		G-296
354	LW Radiance, Albedo	2/day					62-002A-01B		G-297
355	Calibrated Radiances ( .2-30 micrometers)						62-002A-03A		G-298
356	Radiances						63-024A-01A		G-299
357	Calibrated Radiances ( .2-30 micrometers)						63-024A-02A		G-300
146	Temperature and Moisture Profiles	2/day	4 x 5 deg		Global	1000-10 mb		M	G-082
148	Clouds, Humidity, Ozone, Temperature		2.5x2.5 deg		Global			M	G-084
147	Temperature					Mid-Troposphere		M	G-083
398	Altimeter Data				Global		Altimeter	H	J-40
399	Ocean Height, Significant Wave Height, Surface Wind				Global		June 1992 Launch	H	J-41
400	Ocean Height, Significant Wave Height, Surface Wind				Ocean		June 1992 Launch	H	J-42
396					Ocean		GGI Pre-cursor Data set (J-39)	M	J-38
397	Microwave Radiances				Global		Radiances	H	J-39
100	Raw Counts, Radiances		8.4 km x 495 km	2.8km	Global	10-60 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-036
101	Profiles of Temperature and Trace Gases		8.4 km x 495 km	2.8 km	Global	10-60 km	(N2O, NO, NO2, HNO3, CFC13, CF2C13, HCl, ClO, ClONO2, O3, H2O, CH4, CO2)	H	G-037
102	Profiles of Temperature and Trace Gases	1/day			Global	10-60 km	Daily Composite mapped to standard time and latitude grids and represented as Fourier series	M	G-038
109	Raw Counts, Radiances		6.2 km	2 km	75N - 75S	10-65 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-045
110	Pressure and Trace Gas Profiles		6.2 km	2 km	75N - 75S	10-65 km	O3, HCl, CH4, H2O, NO, NO2	H	G-046
111	Pressure and Trace Gas Profiles	1/day	TBD	TBD	75N - 75S	10-65 km	Daily Composite mapped to standard time grid	M	G-047
112	Raw Counts, Radiances		128 km x 55 km	4 km	80N - 80S	10 - 110 km	Instrument and Obs. parameters (Level 0 and 1 data)	M	G-048
113	Horizontal Vector Wind Fields		128 km x 55 km	4 km	80N - 80S	10 - 110 km	Upper troposphere and thermosphere	M	G-049
114	Horizontal Vector Wind Fields	1/day	TBD	TBD	80N - 80S	10 - 110 km	Daily Composite mapped to standard time grid	M	G-050
103	Raw Counts, Radiances		18 km x 121 km	2.6 km	80N - 80S	10-80 km	Instrument and Obs. parameters (Level 0 and 1 data)	L	G-039
104	Temperature and composition Profiles		18 km x 121 km	2.6 km	80N - 80S	10-80 km	CO, H2O, CH4, HNO3, N2O5, NO, NO2, N2O, aerosols	H	G-040

## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Dataset Name	Level	Platform	Instrument	Data Center (1991)	DAAC (1994)	Data Held	Data Producer	FY91 Volume (GB)	FY94 Volume (GB)	Storage Media	No. Of Media Units	Data Format	Temporal Coverage
105	Temperature and composition Profiles	3	UARS	ISAMS		GSFC		UARS Proj.		11.76				8/91-on
106	Instrument Science Data	0,1	UARS	MLS		GSFC		UARS Proj.		51.94				8/91-on
107	Pressure and Trace Gas Profiles	2	UARS	MLS		GSFC		UARS Proj.		0.45				8/91-on
108	Pressure and Trace Gas Profiles	3	UARS	MLS		GSFC		UARS Proj.		18.04				8/91-on
97	Instrument Science Data	0,1	UARS	PEM		GSFC		UARS Proj.		46.65				8/91-on
98	In-situ Geophysical Parameters	2	UARS	PEM		GSFC		UARS Proj.		17.32				8/91-on
99	Average Geophysical Parameters	3	UARS	PEM		GSFC		UARS Proj.		39.92				8/91-on
91	Instrument Science Data	0,1	UARS	SOLSTICE		GSFC		UARS Proj.		12.35				8/91-on
92	Solar Spectral Irradiance	2	UARS	SOLSTICE		GSFC		UARS Proj.		22.28				8/91-on
93	Daily Avg. Solar Irradiance	3	UARS	SOLSTICE		GSFC		UARS Proj.		1.11				8/91-on
94	Instrument Science Data	0,1	UARS	SUSIM		GSFC		UARS Proj.		30.20				8/91-on
95	Solar Spectral Irradiance	2	UARS	SUSIM		GSFC		UARS Proj.		3.23				8/91-on
96	Daily Avg. Solar Irradiance	3	UARS	SUSIM		GSFC		UARS Proj.		1.11				8/91-on
115	Instrument Science Data	0,1	UARS	WINDII		GSFC		UARS Proj.		163.20				8/91-on
116	Temperature and Wind Profiles	2	UARS	WINDII		GSFC		UARS Proj.		5.56				8/91-on
117	Temperature and Wind Profiles	3	UARS	WINDII		GSFC		UARS Proj.		5.51				8/91-on
118	Engineering Data	0	UARS			GSFC		UARS Proj.		108.47				8/91-on
441	Daily Surface Radiation Budget Maps	3		SRB		LaRC		LaRC		1.60				7/83-6/91
378	Tropospheric Corrections - FNOC	2			NODS/JPL	JPL			0.28	0.28				11/8/86-12/28/88
454	Polar Ozone AAOE/AASE					LaRC		TBD						
456	STORM3					LaRC		TBD						
457	CYCLES					LaRC		TBD						
458	Residual O3 - J. Fishman					LaRC		LaRC	0.10	0.10				
460	HITRAN Data Base					LaRC		AFGL	0.10	0.10				



## Appendix U: Current and Future Data Holdings of DAACs By Platform

Dataset No.	Parameters	Temporal Resolution (Frequency)	Horizontal Resolution	Vertical Resolution	Horizontal Coverage	Vertical Coverage	Comments	Priority	SDP No.
105	Temperature and composition Profiles	1/day			80N - 80S	10-80 km	Daily Composite mapped to standard time grid	M	G-041
106	Raw Counts, Radiances		10-30 km x 495 km	3-10 km	80N - 80S	15-85 km	Instrument and Obs. parameters (Level 0 and 1 data)	H	G-042
107	Pressure and Trace Gas Profiles		10-30 km x 495 km	3-10 km	80N - 80S	15-85 km	H <sub>2</sub> O, O <sub>3</sub> , ClO, H <sub>2</sub> O <sub>2</sub> , O <sub>3</sub>	H	G-043
108	Pressure and Trace Gas Profiles	1/day	10-30 km	3-10 km	80N - 80S	15-85 km	Daily Composite mapped to standard time grid	M	G-044
97	Raw Counts, Radiances				Satellite Orbit	N/A	Instrument and Obs. parameters (Level 0 and 1 data)	L	G-033
98	Electron and Proton Observations				Satellite Orbit	N/A		M	G-034
99	Electron and Proton Spectra, Directional X-ray Spectra, Vector Magnetic Fields	1/day			Satellite Orbit	TBD		M	G-035
91	Raw Counts, Radiances				Full Sun		Instrument and Obs. parameters (Level 0 and 1 data)	L	G-027
92	Solar and Stellar Spectral Irradiance				Full Sun		Solar and Stellar Spectral Irradiance 115 - 430 nm	M	G-028
93	Daily Average Solar and Stellar Irrad.	1/day			Full Sun			M	G-029
94	Raw Counts, Radiances				Full Sun		Instrument and Obs. parameters (Level 0 and 1 data)	L	G-030
95	Solar Spectral Irradiance (Absolute Flux)				Full Sun			M	G-031
96	Solar Spectral Irradiance (Absolute Flux)	1/day			Full Sun		Daily Composite mapped to standard latitude grid	M	G-032
115	Raw Counts, Radiances	1/day	20 km	4 km	75N - 75S	85-105 km	Instrument and Obs. parameters (Level 0 and 1 data)	M	G-051
116	Temperature and Wind Profiles		20 km	4 km	75N - 75S	85-105 km		M	G-052
117	Composite Temperature and Wind Profiles (Time Grid)	1/day	TBD	TBD	75N - 75S	85-105 km	Daily Composite mapped to standard time and latitude grid	M	G-053
118	Engineering Values						Fourier series representation of Level-3 data	L	G-054
441	Wind Vectors						New V0 Product	M	L-39
378					Ocean		Wet & Dry Correction	M	J-20
454								M	L-52
456								L	L-54
457								L	L-55
458								H	L-56
460								H	L-58



# **Data Products from Future Missions / Projects**

*Appendix V*

**Science Processing Support Office (SPSO)**

**Goddard Space Flight Center**

**August 1992**



# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
1	CF2Cl2 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
2	CF2Cl2 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
3	CFCl3 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
4	CFCl3 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
5	CH4 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
6	CH4 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
7	CNO Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
8	CNO Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
9	CHONO2 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
10	CHONO2 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
11	CO2 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
12	CO2 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
13	H2O Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
14	H2O Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
15	HCl Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
16	HCl Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
17	HN03 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
18	HN03 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
19	N2O Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
20	N2O Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
21	NO Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
22	NO Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
23	NO2 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
24	NO2 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
25	O3 Conc	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
26	O3 Conc	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
27	Temperature	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
28	Temperature	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
29	Temperature and trace gas profiles (daily composites mapped to standard time grid)	Roche	CLAES	UARS	GSFC	1 day	8.4 km :: 495 km/scan, G	2.8 km :: 10-60 km	level-2	G-37
30	Temperature and trace gas profiles (Fourier series representation of level-3 data)	Roche	CLAES	UARS	GSFC	1 day	4 dg zonal mean :: G	2.8 km :: 10-60 km	level-3, daily composite mapped to standard latitude	G-38
31	CH4 Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
32	H2O Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
33	HCl Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
34	NO Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
35	NO2 Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
36	O3 Conc	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
37	Pressure	Russell	HALOE	UARS	GSFC	2/orbit	6.2 km :: G	2 km :: 10-65 km	level-2	G-46
38	Pressure and trace gas profiles (daily composites mapped to standard time grid)	Russell	HALOE	UARS	GSFC	1 day	6.2 km :: G	2 km :: 10-65 km	level-3, daily composite mapped to standard time grid	G-47
39	Wind Field, Horizontal Vector	Hays	HRDI	UARS	GSFC		128 km :: TBD	4 km :: upper trop. to thermosphere	level-2	G-49
40	Wind Field, Horizontal Vector	Hays	HRDI	UARS	GSFC	1 day	4 dg zonal mean :: TBD	4 km :: upper trop. to thermosphere	level-3, daily composite mapped to std. latitude grid	G-50
41	Wind Field, Horizontal Vector	Hays	HRDI	UARS	GSFC	1 day		4 km :: upper trop. to thermosphere	level-3, daily composite mapped to std. time grid	G-50

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
42	Wind Field, Horizontal Vector	Hays	HRDI	UARS	GSFC	1 day		4 km :: upper trop. to thermosphere	level-3. Fourier series representation.	G-50
43	Aerosol Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
44	Aerosol Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
45	CH4 Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
46	CH4 Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
47	CO Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
48	CO Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
49	H2O Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
50	H2O Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
51	HNO3 Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
52	HNO3 Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
53	N2O Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
54	N2O Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
55	N2O5 Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
56	N2O5 Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
57	NO Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
58	NO Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
59	NO2 Conc	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
60	NO2 Conc	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
61	temperature	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-2	G-40
62	temperature	Taylor	ISAMS	UARS	GSFC	1 day	4 dg zonal mean :: G	2.6 km :: >65 km	level-3. daily composite mapped to std. latitude grid	G-41
63	temperature and trace gas profiles (daily composites mapped to standard time grid)	Taylor	ISAMS	UARS	GSFC		18 km :: 121 km/scan, G	2.6 km :: >65 km	level-3. daily composite mapped to std. time grid	G-41
64	temperature and trace gas profiles (Fourier series representation of level-3 data)	Taylor	ISAMS	UARS	GSFC	1 day		2.6 km :: >65 km	level-3. Fourier series representation.	G-41
65	ClO Conc	Waters	MLS	UARS	GSFC		10-30 km :: TBD	3-10 km :: TBD	level-2	G-43
66	ClO Conc	Waters	MLS	UARS	GSFC	1 day	4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-44
67	H2O Conc	Waters	MLS	UARS	GSFC		10-30 km :: TBD	3-10 km :: TBD	level-2	G-43
68	H2O Conc	Waters	MLS	UARS	GSFC	1 day	4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-44
69	H2O2 Conc	Waters	MLS	UARS	GSFC		10-30 km :: TBD	3-10 km :: TBD	level-2	G-43
70	H2O2 Conc	Waters	MLS	UARS	GSFC	1 day	4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-44
71	O3 Conc	Waters	MLS	UARS	GSFC		10-30 km :: TBD	3-10 km :: TBD	level-2	G-43
72	O3 Conc	Waters	MLS	UARS	GSFC	1 day	4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-44
73	Pressure	Waters	MLS	UARS	GSFC		10-30 km :: TBD	3-10 km :: TBD	level-2	G-43
74	Pressure	Waters	MLS	UARS	GSFC	1 day	4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-44
75	Pressure and trace gas profiles (daily composites mapped to standard time grid)	Waters	MLS	UARS	GSFC		4 dg zonal mean :: G	3-10 km :: TBD	level-3. daily composite mapped to std. time grid	G-44
76	Pressure and trace gas profiles (Fourier series representation of level-3 data)	Waters	MLS	UARS	GSFC	1 day		3-10 km :: TBD	level-3. Fourier series representation.	G-44
77	Electron Energy Spectra	Winnigham	PEM	UARS	GSFC		N/A :: satellite orbit	N/A :: satellite orbit	level 3AT average over orbit	G-35
78	Magnetic Field Vectors	Winnigham	PEM	UARS	GSFC	satellite orbit	N/A :: satellite orbit	N/A :: satellite orbit	level 3AT average over orbit	G-35
79	Precipitating Electrons	Winnigham	PEM	UARS	GSFC	satellite orbit	N/A :: satellite orbit	N/A :: satellite orbit	level 2 in situ	G-34
80	Precipitating Protons	Winnigham	PEM	UARS	GSFC		N/A :: satellite orbit	N/A :: satellite orbit	level 2 in situ	G-34
81	Prolon Energy Spectra	Winnigham	PEM	UARS	GSFC	satellite orbit	N/A :: satellite orbit	N/A :: satellite orbit	level 3AT average over orbit	G-35
82	X-Ray Spectra, Directional	Winnigham	PEM	UARS	GSFC	satellite orbit	N/A :: satellite orbit	N/A :: satellite orbit	level 3AT average over orbit	G-35
83	Solar Spectral Irradiance (115-430 nm)	Rotman	SOLSTICE	UARS	GSFC		N/A :: full sun	N/A :: N/A	level-2	G-28

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
84	Stellar Spectral Irradiance (115-430 nm)	Rottman	SOLSTICE	UARS	GSFC		N/A :: full sun	N/A :: N/A	level-2	G-28
85	Solar Spectral Irradiance (115-430 nm), Daily Average	Rottman	SOLSTICE	UARS	GSFC	1 day	N/A :: full sun	N/A :: N/A	level-3 daily average solar irradiance	G-29
86	Solar Spectral Irradiance	Brueckner	SUSIM	UARS	GSFC			N/A :: N/A	level-2	G-31
87	Solar Spectral Irradiance, Daily Average	Brueckner	SUSIM	UARS	GSFC	1 day		N/A :: N/A	level-3 daily average solar irradiance	G-32
88	Temperature Profile	Shepherd	WINDII	UARS	GSFC		N/A :: full sun	N/A :: TBD	level-2	G-52
							20 km (60 km along-track) :: TBD	4 km :: TBD		
89	Temperature Profile	Shepherd	WINDII	UARS	GSFC		4 dg zonal mean :: TBD	4 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-53
90	Wind Velocity Profile	Shepherd	WINDII	UARS	GSFC		20 km (60 km along-track) :: TBD	4 km :: TBD	level-2	G-52
91	Wind Velocity Profile	Shepherd	WINDII	UARS	GSFC		4 dg zonal mean :: TBD	4 km :: TBD	level-3. daily composite mapped to std. latitude grid	G-53
92	temperature and wind profiles (daily composites mapped to standard time grid)	Shepherd	WINDII	UARS	GSFC			4 km :: TBD	level-3. daily composite mapped to std. time grid	G-53
93	temperature and wind profiles (Fourier series representation)	Shepherd	WINDII	UARS	GSFC			4 km :: TBD	level-3. Fourier series representation.	G-50
94	Auxiliary Data	Waters	MLS	UARS	GSFC		TBD ::		Instrument and observation parameters; auxiliary data TBD	G-44
95	Auxiliary Data	Shepherd	WINDII	UARS	GSFC		TBD ::		Instrument and observation parameters; auxiliary data TBD	N/A
96	Radiance, GAC Recorded	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	1.1 km FOV, subsampled every 4th pixel/scan; 1/4 scans	G-20
97	Radiance, LAC Recorded	Esaias	SeaWiFS	Seastar	GSFC	10 min/day	1.1 km :: Ocean/L	N/A :: S/c	1.1 km FOV, every pixel/scan	G-21
98	Radiance, HRPT	Esaias	SeaWiFS	Seastar	GSFC	30 min/day	1.1 km :: Ocean/L	N/A :: S/c	1.1 km FOV, every pixel/scan - direct transmission	G-22
99	Aerosol Radiances (3), GAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 AL "CZCS-type" algorithm	G-23
100	Aerosol Radiances (3), GAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 PL, modified algorithm	G-23
101	Aerosol Radiances (3), LAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 AL "CZCS-type" algorithm; recorded LAC, HRPT	N/A
102	Aerosol Radiances (3), LAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 PL, modified algorithm; recorded LAC, HRPT	N/A
103	Chlorophyll-A Conc, GAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 PL, modified algorithm	G-23
104	Chlorophyll-A Conc, LAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 PL, modified algorithm; recorded LAC, HRPT	N/A
105	Diffuse Attenuation Coefficient @ 490 nm, GAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 AL "CZCS-type" algorithm	G-23
106	Diffuse Attenuation Coefficient @ 490 nm, GAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 PL, modified algorithm	G-23
107	Diffuse Attenuation Coefficient @ 490 nm, LAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 AL "CZCS-type" algorithm; recorded LAC, HRPT	N/A
108	Diffuse Attenuation Coefficient @ 490 nm, LAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 PL, modified algorithm; recorded LAC, HRPT	N/A
109	Pigment Conc, GAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 AL "CZCS-type" algorithm	G-23
110	Pigment Conc, GAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 PL, modified algorithm	G-23
111	Pigment Conc, LAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 AL "CZCS-type" algorithm; recorded LAC, HRPT	N/A
112	Pigment Conc, LAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: S/c	level-2 PL, modified algorithm; recorded LAC, HRPT	N/A
113	Water Leaving Radiances (5), GAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: S/c	level-2 AL "CZCS-type" algorithm	G-23

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V# #
114	Water Leaving Radiances (5), GAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/orbit	4 km (1.1 km FOV) :: Ocean	N/A :: Sfc	level-2 PL; modified algorithm	G-23
115	Water Leaving Radiances (5), LAC CZCS-Type	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: Sfc	level-2 AL "CZCS-type" algorithm; recorded LAC; HRPT	N/A
116	Water Leaving Radiances (5), LAC Post-Launch	Esaias	SeaWiFS	Seastar	GSFC	40 min/day	1.1 km :: Ocean/L	N/A :: Sfc	level-2 PL; modified algorithm; recorded LAC; HRPT	N/A
117	Aerosol Radiances (3), GAC CZCS-Type Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 AL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
118	Aerosol Radiances (3), GAC CZCS-Type Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 AL; average parameter values; 2048 (lat) x 4096 global images	G-25
119	Aerosol Radiances (3), GAC Post-Launch Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 PL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
120	Aerosol Radiances (3), GAC Post-Launch Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 PL; average parameter values; 2048 (lat) x 4096 global images	G-25
121	Chlorophyll-A Conc, GAC Post-Launch Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 PL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
122	Chlorophyll-A Conc, GAC Post-Launch Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 PL; average parameter values; 2048 (lat) x 4096 global images	G-25
123	Diffuse Attenuation Coefficient @ 490 nm, GAC CZCS-Type Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 AL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
124	Diffuse Attenuation Coefficient @ 490 nm, GAC CZCS-Type Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 AL; average parameter values; 2048 (lat) x 4096 global images	G-25
125	Diffuse Attenuation Coefficient @ 490 nm, GAC Post-Launch Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 PL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
126	Diffuse Attenuation Coefficient @ 490 nm, GAC Post-Launch Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 PL; average parameter values; 2048 (lat) x 4096 global images	G-25
127	Pigment Conc, GAC CZCS-Type Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 AL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
128	Pigment Conc, GAC CZCS-Type Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 AL; average parameter values; 2048 (lat) x 4096 global images	G-25
129	Pigment Conc, GAC Post-Launch Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 PL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
130	Pigment Conc, GAC Post-Launch Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 PL; average parameter values; 2048 (lat) x 4096 global images	G-25
131	Water Leaving Radiances (5), GAC CZCS-Type Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 AL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
132	Water Leaving Radiances (5), GAC CZCS-Type Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 AL; average parameter values; 2048 (lat) x 4096 global images	G-25
133	Water Leaving Radiances (5), GAC Post-Launch Compressed	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	10 km (and 20 km) :: Ocean	N/A :: Sfc	level-3 PL; sums of values and values-squared, # pixels, # scenes for eachparameter	G-24
134	Water Leaving Radiances (5), GAC Post-Launch Mosaic	Esaias	SeaWiFS	Seastar	GSFC	day, 8-day, mo	2048 x 4096 TBD-map grid (-10 km) :: Ocean	N/A :: Sfc	level-3 PL; average parameter values; 2048 (lat) x 4096 global images	G-25
135	Level-3 Calibration/Validation Image, LAC	Esaias	SeaWiFS	Seastar	GSFC	multiple	1.1 km :: ground-truth site	N/A :: Sfc	100 pixel square level-3 image for calibration/validation	N/A
136	Auxiliary Data	Esaias	SeaWiFS	Seastar	GSFC	multiple	multiple :: G		NMC, FNOG, and ECMWF analysis fields; ozone; water vapor; wind; and aerosol data from TBD	G-26
137	Radiance, 5-Channel GAC; Pathfinder		AVHRR	NOAA 7,9,11	GSFC	14 orbits/day	4 km :: G	N/A :: N/A	Pathfinder, level-1b; ~50MB/orbit	G-1
138	Cloud and Radiance Fields; Pathfinder		AVHRR	NOAA 7,9,11	GSFC	2/day [d.n]	50 km :: G	60 layers :: Atmos	Pathfinder, level-2 Atmospheric products - cloud and radiance fields; 60 layers	G-2



# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
139	Cloud and Radiance Fields; Pathfinder		AVHRR	NOAA 7,9,11	GSFC	7 day composite [d,n]	50 km :: G	60 layers :: Atmos	Pathfinder. Atmospheric products, 7 day composite of 2/day products	G-3
140	Cloud and Radiance Fields; Pathfinder		AVHRR	NOAA 7,9,11	GSFC	30 day composite [d,n]	50 km :: G	60 layers :: Atmos	Pathfinder. Atmospheric products, 30 day composite of 2/day products	G-4
141	Radiance, 5-Channel Clear-Sky; Pathfinder		AVHRR	NOAA 7,9,11	GSFC	1/day [d]	9 km :: G	15 layers :: Atmos	Pathfinder. level-3; daytime 5 channel radiances; total of 15 layers	G-5
142	Sea Surface Temperature (SST); Pathfinder		AVHRR	NOAA 7,9,11	JPL	2/day [d,n]	9 km :: Ocean	N/A :: Sfc	Pathfinder. level-3; twice daily (day/night); MCSST	G-8
143	Sea Surface Temperature (SST); Pathfinder		AVHRR	NOAA 7,9,11	JPL	10 day composite [d,n]	9 km :: Ocean	N/A :: Sfc	Pathfinder. level-3; 10 day composite, day and night	G-9
144	Sea Surface Temperature (SST); Pathfinder		AVHRR	NOAA 7,9,11	JPL	1 mo composite [d,n]	9 km :: Ocean	N/A :: Sfc	Pathfinder. level-3; 1 mo composite, day and night	G-10
145	Sea Surface Temperature (SST); Buoy Match-up; Pathfinder		AVHRR	NOAA 7,9,11	JPL	2/day [d,n]	Buoy locations :: G	N/A :: Sfc	Pathfinder. Buoy SST observations colocated with derived SST	G-11
146	Vegetation Index (NDVI); Pathfinder		AVHRR	NOAA 7,9,11	GSFC	10 day composite	9 km :: Land	N/A :: Sfc	Pathfinder. level-3; 10 day composite from daily NDVI (1 image/day @ 40 MB/image)	G-6
147	Vegetation Index (NDVI); Pathfinder		AVHRR	NOAA 7,9,11	GSFC	1 mo composite	9 km :: Land	N/A :: Sfc	Pathfinder. level-3; 30 day composite	G-7
148	Radiance, Level-1B; Pathfinder		TOVS (HIRS2, MSU, SST)	NOAA PO	NOAA		18 km (nadir) :: G	:: Atmos	Pathfinder. level-1B	G-12
149	Temperature Profile; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	22 levels :: Sfc-4 mb	Pathfinder. level-2	G-13
150	Temperature Profile, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	14 levels :: Sfc-20 mb	Pathfinder. level-2	G-13
151	Thickness (Geopotential Height); Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	21 levels :: Atmos	Pathfinder. level-2	G-13
152	Thickness (Geopotential Height), First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	13 levels :: Atmos	Pathfinder. level-2	G-13
153	Pressure, Tropopause; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder. level-2	G-13
154	Humidity, Specific; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	6 levels :: Sfc-300 mb	Pathfinder. level-2	G-13
155	Humidity, Specific, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	6 levels ::	Pathfinder. level-2	G-13
156	Precipitable Water, Total; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	above 6 levels ::	Pathfinder. level-2	G-13
157	Precipitable Water, Total, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	above 6 levels ::	Pathfinder. level-2	G-13
158	Pressure, Sfc; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
159	Topography; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
160	Temperature, Sfc, Air; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
161	Temperature, Sfc, Air, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
162	Humidity, Specific, Sfc; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
163	Humidity, Specific, Sfc, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
164	Height (below 1000mb); Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13
165	O3, Total; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Atmos	Pathfinder. level-2	G-13
166	O3, Total, First_guess; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Atmos	Pathfinder. level-2	G-13
167	Brightness Temperature (Channel 9) Sensitivity to O3 Change; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Atmos	Pathfinder. level-2	G-13
168	Skin Temperature, Sfc; Pathfinder	Sustkind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder. level-2	G-13

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. : Cover.	Vertical Resol. : Cover.	Comments	V0 #
169	Sea_sfc Temperature Anomaly; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: Ocean	N/A :: Sfc	Pathfinder, level-2	G-13
170	Emissivity, Microwave, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder, level-2	G-13
171	Reflectance @ 3.7um, Bi-directional, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G	N/A :: Sfc	Pathfinder, level-2	G-13
172	Cloud Height; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
173	Cloud Fraction; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
174	Radiation, Outgoing LW (OLR); Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
175	Radiation, LW, Down, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
176	Radiative Forcing, LW, Cloud; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
177	Reflectance, Scene, Visible; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
178	Precipitation Index; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
179	Precipitation Indicator; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder, level-2	G-13
180	Radiance (Brightness Temperature)	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder. More like a level-2 product, rather than a level-1 radiance, since cloud-corrections applied	G-13
181	Residuals, 11-channels, Cloud corrected-Radiance (Brightness Temperature)	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder. More like a level-2 product, rather than a level-1 radiance, since cloud-corrections applied	G-13
182	Residuals, 17-channels, Cloud corrected-First guess; Pathfinder	Suskind	TOVS	NOAA PO	GSFC		60 km :: G		Pathfinder. More like a level-2 product, rather than a level-1 radiance, since cloud-corrections applied	G-13
183	Temperature Profile; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G	22 levels :: Sfc-0.4 mb	Pathfinder, level-3 @ 22 mandatory levels	G-14
184	Geopotential Height; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G	21 levels :: Atmos	Pathfinder, level-3 @ 21 mandatory levels	G-14
185	Tropopause Pressure; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
186	Temperature, Sfc, air; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
187	Humidity, Specific; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
188	Precipitable Water, Total; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G	6 levels :: Atmos	Pathfinder, level-3 @ 6 mandatory levels	G-14
189	Humidity, Specific, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G	6 levels :: Atmos	Pathfinder, level-3 @ 6 mandatory levels	G-14
190	O3, Total; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
191	Skin Temperature, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
192	Sea_sfc Temperature Anomaly; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: Ocean		Pathfinder, level-3	G-14
193	Pressure, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
194	Emissivity, Microwave, Sfc; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
195	Reflectance@3.7 um, Bi-directional; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
196	Cloud Height; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
197	Cloud Fraction; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
198	Radiation, Outgoing LW (OLR); Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
199	Radiative Flux, LW, Down; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
200	Radiative Forcing, LW, Cloud; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
201	Reflectance, Scene, Visible; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
202	Precipitation Index; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14
203	Precipitation Estimate; Pathfinder	Suskind	TOVS	NOAA PO	GSFC	12 hr	1 x 1 deg :: G		Pathfinder, level-3	G-14

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
204	Analyzed Fields; Pathfinder	Staskind	TOVS	NOAA PO	GSFC		4 x 5 deg :: G		Pathfinder, level-4: no detailed specs. in V0 reports	G-15
205	Forecast Fields; Pathfinder	Staskind	TOVS	NOAA PO	GSFC		4 x 5 deg :: G		Pathfinder, level-4: no detailed specs. in V0 reports	G-15
206	Wind Vectors, Sfc	Freilich	NSCAT	ADEOS	NASDA	2 day	50 km :: Ocean (ice-free)	N/A :: Sfc	level-2	N/A
207	Cloud Amount (Coverage)		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Atmos	level-2,3	N/A
208	Cloud Height		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Atmos	level-2,3	N/A
209	Cloud Type		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Atmos	level-2,3	N/A
210	Phytoplankton Biomass		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Sfc	level-2,3	N/A
211	Rain (Precipitation)		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Sfc	level-2,3	N/A
212	Sea Surface Temperature (SST)		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Sfc	level-2,3	N/A
213	Water Leaving Radiances		OCTS	ADEOS	NASDA		1-4 km :: Ocean	N/A :: Sfc	level-2,3	N/A
214	O3 Total Column (Total Ozone)	Bhartia	TOMS 2	ADEOS	NASDA	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2; corresponds to Nimbus-7 HDTOMS tape	N/A
215	O3 Total Column (Total Ozone)	Bhartia	TOMS 2	ADEOS	NASDA	1 day	1 x 1.25 dg :: G	N/A :: 100-0.3 mb	level-3; corresponds to Nimbus-7 gridded Toms tape	N/A
216	Radiances (6 Channels)	Bhartia	TOMS 2	ADEOS	NASDA	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2 (i.e., stored with level-2 retrieved parameters); corresponds to Nimbus-7 HDTOMS	N/A
217	Reflectivities (6 Channels)	Bhartia	TOMS 2	ADEOS	NASDA	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2; corresponds to Nimbus-7 HDTOMS tape	N/A
218	Reflectivities (6 Channels)	Bhartia	TOMS 2	ADEOS	NASDA	1 day	1 x 1.25 dg :: G	N/A :: 100-0.3 mb	level-3; corresponds to Nimbus-7 gridded Toms tape	N/A
219	Solar Irradiance	Bhartia	TOMS 2	ADEOS	NASDA	1/day	N/A :: N/A	N/A :: N/A	level-2; corresponds to Nimbus-7 solar irradiance	N/A
220	Geophysical Parameters		AVNIR	ADEOS	NASDA				level-2; no specific product information available	N/A
221	Geophysical Parameters		POLDER	ADEOS	NASDA				level-2; no specific product information available	N/A
222	O3 Total Column (Total Ozone)	Krueger	TOMS 2	Meteor-3	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2; corresponds to Nimbus-7 HDTOMS tape	G-66
223	O3 Total Column (Total Ozone)	Krueger	TOMS 2	Meteor-3	GSFC	1 day	1 x 1.25 dg :: G	N/A :: 100-0.3 mb	level-3; corresponds to Nimbus-7 gridded Toms tape	G-67
224	Radiances (6 Channels)	Krueger	TOMS 2	Meteor-3	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2 (i.e., stored with level-2 retrieved parameters); corresponds to Nimbus-7 HDTOMS	G-66
225	Reflectivities (6 Channels)	Krueger	TOMS 2	Meteor-3	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: 100-0.3 mb	level-2; corresponds to Nimbus-7 HDTOMS tape	G-66
226	Reflectivities (6 Channels)	Krueger	TOMS 2	Meteor-3	GSFC	1 day	1 x 1.25 dg :: G	N/A :: 100-0.3 mb	level-3; corresponds to Nimbus-7 gridded Toms tape	G-67
227	Solar Irradiance	Krueger	TOMS 2	Meteor-3	GSFC	1/day	N/A :: N/A	N/A :: N/A	level-2; corresponds to Nimbus-7 solar irradiance tape	G-66
228	O3 Total Column (Total Ozone)	Bhartia	TOMS 2	Earth Probes	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: Atmos	level-2; corresponds to Nimbus-7 HDTOMS tape	N/A
229	O3 Total Column (Total Ozone)	Bhartia	TOMS 2	Earth Probes	GSFC	1 day	1 x 1.25 dg :: G	N/A :: Atmos	level-3; corresponds to Nimbus-7 gridded Toms tape	N/A
230	Radiances (6 Channels)	Bhartia	TOMS 2	Earth Probes	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: Atmos	level-2 (i.e., stored with level-2 retrieved parameters); corresponds to Nimbus-7 HDTOMS	N/A
231	Reflectivities (6 Channels)	Bhartia	TOMS 2	Earth Probes	GSFC	35 samples/scan (8 s)	-50 km (nadir) :: G	N/A :: Atmos	level-2; corresponds to Nimbus-7 HDTOMS tape	N/A
232	Reflectivities (6 Channels)	Bhartia	TOMS 2	Earth Probes	GSFC	1 day	1 x 1.25 dg :: G	N/A :: Atmos	level-3; corresponds to Nimbus-7 gridded Toms tape	N/A
233	Solar Irradiance	Bhartia	TOMS 2	Earth Probes	GSFC	1/day	N/A :: N/A	N/A :: N/A	level-2; corresponds to Nimbus-7 solar irradiance tape	N/A
234	Level-1B Radiance		OPS	JERS-1	EDC, NASDA				level-1B; Optical Sensor. Information from JERS-1 pamphlet	E-12
235	Digital Elevation Model (DEM)		OPS	JERS-1	NASDA				level-3; Information from JERS-1 pamphlet	N/A
236	Geomorphology		OPS	JERS-1	NASDA				levels-2,3; Information from JERS-1 pamphlet	N/A
237	Mineral Type		OPS	JERS-1	NASDA				levels-2,3; Information from JERS-1 pamphlet	N/A
238	Rock Type		OPS	JERS-1	NASDA				levels-2,3; Information from JERS-1 pamphlet	N/A
239	Topography		SAR	JERS-1	NASDA				levels-2,3; Information from JERS-1 pamphlet	N/A
240	Geological Characteristics		SAR	JERS-1	NASDA				levels-2,3; Information from JERS-1 pamphlet	N/A
241	Ice Motion Vector		SAR	JERS-1	ASF				levels-2,3; from V0 data report	A-12
242	Ice Type Classification		SAR	JERS-1	ASF				levels-2,3; from V0 data report	A-13
243	Ice Type Fraction		SAR	JERS-1	ASF				levels-2,3; from V0 data report	A-14
244	Wave Product		SAR	JERS-1	ASF				levels-2,3; from V0 data report	A-15
245	Signal Data		SAR	JERS-1	ASF		30m ::		level-0; from V0 data report	A-05

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	SDP #
246	Level-1B Backscatter (Full-Resolution)		SAR	JERS-1	ASF		30m ::		level 3; from V0 data report. SAR data processed to 4-looks; 30m res. 12.5m spacing over 100km scene; 51100 frames in 1994; potentially global coverage	A-08
247	Level-1B Backscatter (Low-Resolution)		SAR	JERS-1	ASF		100m ::		level 3; from V0 data report. 8 by 8 ave. of Full-Resolution product; potentially global coverage	A-09
248	Level-3 Geo-Coded Data (Full Resolution)		SAR	JERS-1	ASF		30m ::		level-3; from V0 data report. Full-Resolution products TBD mapped to standard grid; produced	A-10
249	Level-3 Geo-Coded Data (Low Resolution)		SAR	JERS-1	ASF		100m ::		level-3; from V0 data report. Low-Resolution products TBD mapped to standard grid; produced	A-11
250	Ice Motion Vector		AMI-SAR	ERS-1	ASF		5 km grid :: 100 km		levels-2,3; from V0 data report. Generated levels-2,3; from 2 low-res. images.	A-12
251	Ice Type Classification		AMI-SAR	ERS-1	ASF		100 m grid :: 100 km		levels-2,3; from V0 data report	A-13
252	Ice Type Fraction		AMI-SAR	ERS-1	ASF		5 km grid :: 100 km		levels-2,3; from V0 data report	A-14
253	Ocean Wave Direction		AMI-SAR (wave mode)	ERS-1	ASF	1/200-300 km	30 m :: 6 x 6 km image		levels-2,3; from V0 data report (accuracies levels-2,3; from "Janes")	A-15
254	Ocean Wave Length		AMI-SAR (wave mode)	ERS-1	ASF	1/200-300 km	30 m :: 6 x 6 km image		levels-2,3; from V0 data report (accuracies levels-2,3; from "Janes")	A-15
255	Wind Velocity, Sfc		AMI-SCATT	ERS-1	ASF		50 km :: 500 km swath		levels-2,3; from "Janes". Data in 500 km swath. 3 antennas-fore, mid aft beams.	N/A
256	Signal Data		AMI-SAR	ERS-1	ASF				level-0; from V0 Report	A-04
257	Level-1B Backscatter (Full-Resolution)		AMI-SAR	ERS-1	ASF		30m ::		level-1B; from V0 data report. SAR data processed to 4-looks; 30m res. 12.5m spacing over 100km scene; 51100 frames in 1994; potentially global coverage	A-06
258	Level-1B Backscatter (Low-Resolution)		AMI-SAR	ERS-1	ASF		100m ::		level-1B; from V0 data report. 8 by 8 ave. of Full-Resolution product; potentially global coverage	A-07
259	Level-3 Geo-Coded Data (Full Resolution)		AMI-SAR	ERS-1	ASF		30m ::		level-3; from V0 data report. Full-Resolution products TBD mapped to standard grid; produced	A-10
260	Level-3 Geo-Coded Data (Low Resolution)		AMI-SAR	ERS-1	ASF		100m ::		level-3; from V0 data report. Low-Resolution products TBD mapped to standard grid; produced	A-11
261	Sea Sfc Temperature (SST)		ATSR-M	ERS-1	ESA		1 km ::		level-2; from "Janes" and V0 report. 500 km swath.	N/A
262	Signal Data		AMI-SAR	ERS-1	ASF				level-0; from V0 Report	A-03
263	Water Vapor Total Column (corrective data for ATSR SST and Radar Altimeter)		ATSR-M	ERS-1	ESA		22 km ::		level-2; from "Janes".	N/A
264	Altitude Data Over Ice Sheets		ALT (RA)	ERS-1	ESA				level-2; from V0 report. Listed as planned V0	N/A
265	Ocean Wave Height		ALT (RA)	ERS-1	ESA		1.6-2.0 km ::		level-2; from "Janes".	N/A
266	Altitude (with respect to geoid)		ALT (RA)	ERS-1	ESA		1.6-2.0 km ::		level-2; from "Janes".	N/A
267	Anisotropy, LW broadband	Barkstrom	CERES	TRMM	LaRC		10 dg [Angle] :: Tropics	N/A :: Sfc Atmos	From SPO/EOS Master Product List-Tropics only	N/A
268	Cloud Cover	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
269	Cloud Cover	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
270	Cloud Cover	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
271	Cloud Drop Phase	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
272	Cloud Drop Phase	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
273	Cloud Drop Phase	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
274	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
275	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
276	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
277	Cloud Height, Base	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
278	Cloud Height, Base	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
279	Cloud Height, Base	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	SDP #
280	Cloud Height, Top	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
281	Cloud Height, Top	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
282	Cloud Height, Top	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	0.1 km :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
283	Cloud Liq. water Content	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
284	Cloud Liq. water Content	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
285	Cloud Liq. water Content	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
286	Cloud Liq. water Total Column	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	Column :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
287	Cloud Liq. water Total Column	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	Column :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
288	Cloud Liq. water Total Column	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	Column :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
289	Cloud Optical Depth, LW	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
290	Cloud Optical Depth, LW	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
291	Cloud Optical Depth, LW	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
292	Cloud Optical Depth, SW	Barkstrom	CERES	TRMM	LaRC	3/day [d]	25 km :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
293	Cloud Optical Depth, SW	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
294	Cloud Optical Depth, SW	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 dg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
295	Land_sic Reflectance, Bi-directional, SW_Broadband, (BRDF)	Barkstrom	CERES	TRMM	LaRC		10 dg [Angle] :: Tropics	N/A :: Sfc-Atmos	From SPO/EOS Master Product List-Tropics only	N/A
296	Level-1B Radiance, CERES	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: N/A	From SPO/EOS Master Product List-Tropics only	N/A
297	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
298	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
299	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
300	Radiative Flux Divergence, Cloudy_sky	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
301	Radiative Flux Divergence, Cloudy_sky	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
302	Radiative Flux Divergence, Cloudy_sky	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	1.25 dg :: Tropics	1yr :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
303	Radiative Flux, LW, Down	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
304	Radiative Flux, LW, Down	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
305	Radiative Flux, LW, Down	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
306	Radiative Flux, LW, Net	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
307	Radiative Flux, LW, Net	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
308	Radiative Flux, LW, Net	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
309	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
310	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
311	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
312	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
313	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
314	Radiative Flux, LW, Up	Barkstrom	CERES	TRMM	LaRC	6/day [d.n]	25 km :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
315	Radiative Flux, SW, Down	Barkstrom	CERES	TRMM	LaRC	3/day [d]	1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
316	Radiative Flux, SW, Down	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
317	Radiative Flux, SW, Down	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
318	Radiative Flux, SW, Net	Barkstrom	CERES	TRMM	LaRC	3/day [d]	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
319	Radiative Flux, SW, Net	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
320	Radiative Flux, SW, Net	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
321	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LaRC	3/day [d]	1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
322	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LaRC	3/day [d]	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
323	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LaRC	1/day [Avg], 1/mo	1.25 x 1.25 dg :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
324	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A
325	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LaRC	1/(6 hr)	1.25 x 1.25 dg :: Tropics	N/A :: Sfc	From SPO/EOS Master Product List-Tropics only	N/A

Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	SDP #
326	Radiative Flux, SW, Up	Barkstrom	CERES	TRMM	LARC	1/day (Avg), 1mo	1.25 x 1.25 deg :: Tropics	N/A :: TOA	From SPO/EOS Master Product List-Tropics only	N/A
327	Level-1B Radiance, LIS	Christian	LIS	TRMM	MSFC			N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
328	Lightning Occurrence (Location, Time)	Christian	LIS	TRMM	MSFC		07 deg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
329	Lightning Radiant Energy	Christian	LIS	TRMM	MSFC		07 deg :: Tropics	N/A :: Atmos	From SPO/EOS Master Product List-Tropics only	N/A
330	Lightning Rate		PR	TRMM	GSFC			N/A :: Trop	level-1B	N/A
331	Level-1B Backscatter		PR	TRMM	GSFC		4 km :: Tropics	N/A :: Trop	level-2; from rain-rate profile	N/A
332	Liq. water Content, Total		PR	TRMM	GSFC		4 km :: Tropics	250 m :: Trop	level-2A; from reflectivities	N/A
333	Rain Rate Profile [with rain/no-rain; bright-band flags]		PR	TRMM	GSFC		4 km :: Tropics	N/A :: Trop	level-2; from path attenuation	N/A
334	Rain Rate, Path-averaged		PR	TRMM	GSFC		4 km :: Tropics	N/A :: Trop	level-2; from reflectivity profile	N/A
335	Storm Height		PR, TMI	TRMM	GSFC		4 km :: Tropics	N/A :: Trop	level-2; fused microwave rain rate from TMI and PR	N/A
336	Rain Rate Profile [fused microwave]		PR, TMI	TRMM	GSFC		4 km :: Tropics	N/A :: Trop	level-3; fused microwave rain rate from TMI and PR	N/A
337	Rain Rate [fused microwave]		TMI	TRMM	GSFC				level-1B Brightness Temperature	N/A
338	Level-1B Radiance (Brightness)		TMI	TRMM	GSFC				level-2	N/A
339	Precipitable Water, Total		TMI	TRMM	GSFC				level-2B	N/A
340	Rain Rate		TMI	TRMM	GSFC				level-3;	N/A
341	Rain Rate		TMI	TRMM	GSFC				level-2; day/night	N/A
342	Wind Stress [Wind Speed], Ocean_Sfc		TMI	TRMM	GSFC	2/day (d.n) seas	1 km :: Tropics	N/A :: Sfc	level-3;	N/A
343	Cloud Cover		VIS	TRMM	GSFC				level-1B	N/A
344	Drought Index, Seasonal		VIS	TRMM	GSFC		1 km :: Tropics		level-2; from cloud index technique	N/A
345	Level-1B Radiance		VIS	TRMM	GSFC		1 km :: Tropics		level-2; from cloud pattern analysis	N/A
346	Rain Rate [cloud index]		VIS	TRMM	GSFC		1 km :: Tropics		level-3	N/A
347	Rain Rate [cloud pattern]		VIS	TRMM	GSFC	2 mo	5 x 20 deg :: Ocean/Tropics	N/A :: Sfc	level-3	N/A
348	Rainfall, Bimonthly		VIS	TRMM	GSFC	1 mo	5 x 5 deg :: Tropics	N/A :: Sfc	level-3	N/A
349	Rainfall, Monthly		VIS	TRMM	GSFC	15 day	10x6 km <sup>2</sup> :: Ocean/Tropics	N/A :: Sfc	level-3	N/A
350	Rainfall, Regional	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-130 km	level-2; shuttle missions	G-68
351	CO conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-35 km	level-2; shuttle missions	G-68
352	CINO3 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-140 km	level-2; shuttle missions	G-68
353	NO conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 15-50 km	level-2; shuttle missions	G-68
354	NO2 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 15-40 km	level-2; shuttle missions	G-68
355	HNO3 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-70 km	level-2; shuttle missions	G-68
356	CH4 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-60 km	level-2; shuttle missions	G-68
357	N2O conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-30 km	level-2; shuttle missions	G-68
358	CFC-12 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-25 km	level-2; shuttle missions	G-68
359	CFC-11 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 20-40 km	level-2; shuttle missions	G-68
360	N2O3 conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-65 km	level-2; shuttle missions	G-68
361	HCI conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-60 km	level-2; shuttle missions	G-68
362	HF conc	Farnier	ATMOS	ATLAS	GSFC			2 km :: 10-120 km	level-2; shuttle missions	G-68
363	Pressure Profile	Hartmann	MAS	ATLAS	GSFC			2-4 km :: 10(20)- (100)120 km	level-2; shuttle missions	G-68
364	Temperature Profile	Hartmann	MAS	ATLAS	GSFC			2-4 km :: 10-90 km	level-2; shuttle missions	G-68
365	H2O conc	Hartmann	MAS	ATLAS	GSFC			2-4 km :: 10(20)- (80)100 km	level-2; shuttle missions	G-68
366	O3 conc	Hartmann	MAS	ATLAS	GSFC			4 km :: 30-45 km	level-2; shuttle missions	G-68
367	CIO conc	Hartmann	MAS	ATLAS	GSFC				level-2; shuttle missions	G-68

# Appendix V: Data Products from Future Missions/Projects

Prod #	Parameter Description	Investigator	Instrument	Platform	Source	Temporal Resolution	Horizontal Resol. :: Cover.	Vertical Resol. :: Cover.	Comments	V0 #
368	CO conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-40 km	level-2; shuttle missions	G-68
369	NO conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 80-180 km	level-2; shuttle missions	G-68
370	NO2 conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-40 km	level-2; shuttle missions	G-68
371	H2O conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-70 km	level-2; shuttle missions	G-68
372	CH4 conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-70 km	level-2; shuttle missions	G-68
373	N2O conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-45 km	level-2; shuttle missions	G-68
374	O3 conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-80 km	level-2; shuttle missions	G-68
375	CFC-12 conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-30 km	level-2; shuttle missions	G-68
376	CFC-11 conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-25 km	level-2; shuttle missions	G-68
377	HF conc	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-70 km	level-2; shuttle missions	G-68
378	Temperature Profile	Offermann	CRISTA	SPAS	GSFC		400 x 700 km :: G	1 km :: 20-120 km	level-2; shuttle missions	G-68
379	Ionospheric Mapping		ALT	TOPEX *	JPL (PO.DAAC)				level-3; from ALT free-electron range-delay	J-42
380	Ocean Sea Level [geocentric]		ALT	TOPEX *	JPL (PO.DAAC)				level-2	J-41
381	Ocean_sfc Height		ALT	TOPEX *	JPL (PO.DAAC)				level-2	J-41
382	Ocean_sfc Height, Merged		ALT	TOPEX / POSEIDON	JPL (PO.DAAC)				level-3	J-42
383	Range Delay Corrections, Ionospheric Free-Electrons		ALT	TOPEX *	JPL (PO.DAAC)				level-2 (or 17); 5.3, 13.56GHz	J-40
384	Spacecraft Altitude		ALT	TOPEX *	JPL (PO.DAAC)	3 sec ave.			level-2 (or 17)	J-40
385	Wave Height, Significant		ALT	TOPEX *	JPL (PO.DAAC)				level-2; from shape of altimeter pulse. 13.65GHz	J-41
386	Wind Speed, Ocean		ALT	TOPEX *	JPL (PO.DAAC)				level-2; from strength of return altimeter pulse. 13.65GHz	J-41
387	Wind Speed, Ocean, Improved		ALT	TOPEX	JPL (PO.DAAC)				level-3; corrected for effects of wave age (possible product)	J-42
388	Gravity Field		DORIS	TOPEX *	JPL (PO.DAAC)				level-2; 401.25MHz, 2.026GHz	N/A
389	Atmospheric Temperature		GPS	TOPEX *	JPL (PO.DAAC)				level-2; from occultation tracking	J-38
390	Orbit Determination		GPS	TOPEX *	JPL (PO.DAAC)				level-2	J-38
391	Range Delay Corrections, Water Vapor		TMR	TOPEX *	JPL (PO.DAAC)				level-2; 18, 21, 37GHz	J-39
392	Georeferenced Image Products		SAR (C-band)	RADARSAT	ASF, CNES ?				level-1; Processed SAR images, including systematic geometric corrections based on satellite ephemeris	N/A
393	Geocoded Image Products		SAR (C-band)	RADARSAT	ASF, CNES ?				level-3; resampled and rotated to conform to standard map projection + corrections for terrain	N/A
394	Special Products		SAR (C-band)	RADARSAT	ASF, CNES ?				levels 0,1; unprocessed signal data, single-look real or complex image files, analysis of external calibration refs.	N/A
395	Geophysical Products, TBD		SAR (C-band)	RADARSAT	ASF, CNES ?				levels-2,3; derived products (e.g., land & sea ice maps; forestry, agricultural, & geological resource maps—TBD)	N/A
396	Brightness Temperatures, Pathfinder		SSM/I	DMSP	MSFC, NSIDC				Pathfinder, level-1B. Polar brightness temperature grids at NSIDC	N/A
397	Geophysical Products, TBD; Pathfinder		SSM/I	DMSP	MSFC, NSIDC				Pathfinder, level-2,3 [Specific parameters to be retrieved are under study. See text this volume for details]	N/A







## Quick Reference for Appendices

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